KRIKAU PYLES RYSIEWICZ AND ASSOCIATES, INC.

January 28, 2002

IS EPA RECORDS CENTER REGION 5

Mr. Steven J. Faryan
On-Scene Emergency Response Branch Coordinator
EPA, Region 5
77 West Jackson Boulevard
HSE2-5J
Chicago, Illinois 60604-3590

VIA FEDERAL EXPRESS

Re: Conservation Chemical Company of Illinois, Inc. Gary, Indiana

Mr. Faryan:

Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR) is hereby submitting a copy of the Conservation Chemical Company of Illinois, Inc. (CCCI) Final Report as required by Administrative Order, Docket No. VW-98-C-497. A copy of this report can be made available in a disc format upon request.

Should you have any questions regarding this report, please contact us.

Respectfully submitted,

Krikau, Pyles, Rysiewicz & Associates, Inc.

Thomas J. Rysiewicz, P.E.

Principal

Enclosure

cc: Ms. Constandina Dalianis

Mr. James Harrington (without Final Report)

CONSERVATION CHEMICAL COMPANY OF ILLINOIS GARY, INDIANA

FINAL REPORT

Prepared in Response to Administrative Order by Consent Pursuant to Section 106 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. § 9606(a)

PREPARED BY:

Krikau, Pyles, Rysiewicz and Associates, Inc.

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TABLE OF CONTENTS

SECT	ION/D	<u>PESCRIPTION</u> <u>P</u>	AGE
1.0	INTR 1.1 1.2 1.3	Site Description Work Plan Overview General Description of Activities Performed	01
2.0	ESTA 2.1	ABLISHMENT OF SITE CONTROL AND OPERATIONS Site Control 2.1.1 Fence 2.1.2 Site Security and Access Procedures 2.1.3 Site Field Operations Office	05 05 06
3.0	SITE 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11	INVESTIGATION/REMEDIATION ACTIVITIES Storage Tanks Basins Drums 3.3.1 Aboveground Drums 3.3.2 Buried Drums Labpacks Lagoons Asbestos Containing Material (ACM) Extent of Contamination Groundwater Monitoring Wells Containment Barrier/Sewer Pipe Miscellaneous Material, Waste, and Debris Removal Documentary Photographs	08 10 11 14 14 15 18 19 21 21
4.0	SAM 4.1 4.2 4.3	PLING AND ANALYSIS PLAN Sampling Objective Sampling Procedures Sample Designation	26 26
5.0	QUA 5.1 5.2	LITY ASSURANCE PLAN (QAP) Level of QC Effort	28
6.0	HEAI 6.1 6.2 6.3 6.4 6.5	Objective Statement Responsibilities 6.2.1 Project Safety Coordinator 6.2.2 Contractors 6.2.3 Site Workers Project Hazard Identification & Protection Project Safety Procedures Auditing the Effectiveness of the Site Health and Safety Plan	30 30 30 31 31

7.0	MON	ITHLY REPORTS	34
8.0	PROJ	JECT COSTS	35
9.0	POST	T REMOVAL SITE CONTROL	38
10.0	CERT	TIFICATION	39
		FIGURES	
FIGUE	RE	DESCRIPTION	PAGE
1-1 2-1 3-1 3-2 3-3 3-4	:	General Site Location Map General Site Diagram Tank, Basin & Lagoon Location Diagram Test Pit Location Diagram Wooden Cooling Tower Sample Location Diagram Monitoring Well Location Diagram	07 09 20 22
		TABLES	
TABL	<u>E</u>	DESCRIPTION	PAGE
8-1		Project Cost Summary Table	36
		APPENDICES	
DESC	RIPTI	<u>ION</u>	
DESCRIPTIONEPA Modification Letter and Work PlanATank Inventory, Tank Waste Disposal Manifests, and Certificates of DestructionBBasin Waste Analyses, Manifests, and Certificates of DestructionCDrum Waste Manifests and Certificates of DestructionDLabpack Manifests and Certificates of DestructionELagoon Sample Location Diagrams and Laboratory AnalysesFACM Laboratory Report, Waste Disposal Profile, Approval Letter, and ManifestGTest Pit Analytical Summary and Laboratory ReportHCooling Tower Analytical ResultsIMonitoring Well Closure FormsJSewer Installation Diagram and Certification of EngineerKDocumentary PhotographsLData Validation ReportsMMonthly Progress ReportsN			

1.0 INTRODUCTION

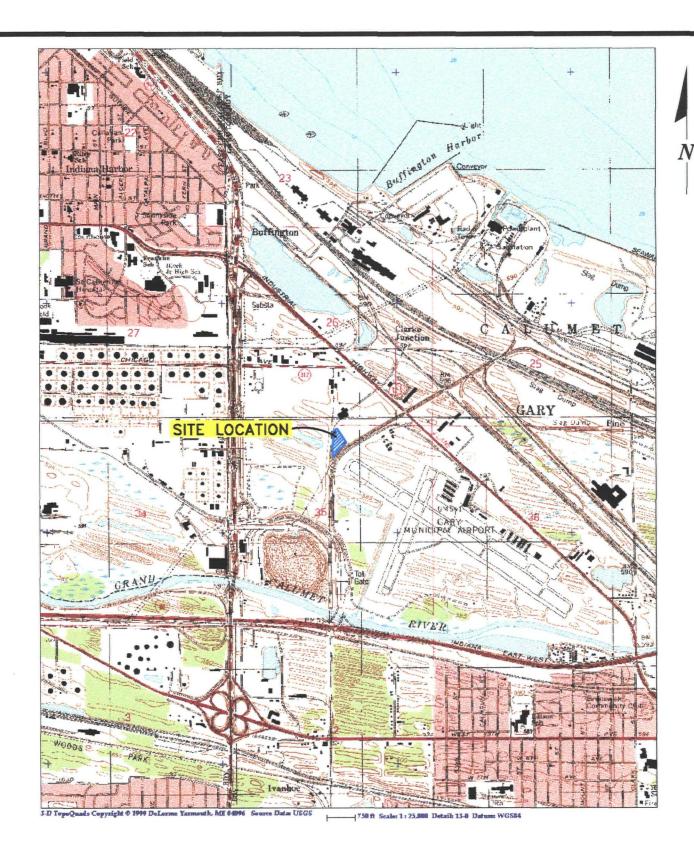
This Final Report was prepared to document the investigative, sampling, and remediation activities performed to comply with Administrative Order, Docket No. VW-98-C-497 (the Order) and Amendment to the Order which were entered into by the United States Environmental Protection Agency (EPA) and the Potentially Responsible Parties (PRP's), known as the 6500 Industrial Highway Group, for the Conservation Chemical Company of Illinois, Inc. (CCCI) site. The CCCI site is located at 6499 Industrial Highway, Lake County, Gary, Indiana. The effective dates of the Order and Amendment were February 4, 1999 and November 29, 2001, respectively.

1.1 Site Description

CCCI site is a 4.1-acre triangular-shaped piece of land in Gary, Indiana. The site is situated north of and adjacent to the Gary/Chicago Airport's main runway, and is bounded by the Western Scrap property to the north and east, the Elgin, Joliet and Eastern (EJ&E) Railroad tracks to the south, and an undeveloped tract of land to the west. See Figure 1-1.

1.2 Work Plan Overview

Initially, a Work Plan was developed on behalf of the PRP's by Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR). This Work Plan, which was dated March, 1999 and was approved by EPA on April 27, 1999, outlined the project activities to be performed to comply with the requirements of the Order. During the implementation of the Work Plan, however, certain modifications to the scope of activities specified in the Work Plan were required and ultimately agreed to by both EPA and the PRP's. A subsequent letter dated April 13, 2000 which documented the initial modifications was prepared and executed. Copies of the Work Plan, approval and subsequent acknowledgment letters, and modification letter are included in Appendix A. Furthermore, as a result of the Amendment to the Order, the requirement of installing a containment barrier was replaced by the installation of a sewer on Gary/Chicago Airport property. This installation, the final remedial activity required, was completed by November 30, 2001. A copy of the Amendment to the Order is also included in Appendix A.



ENVIRONMENTAL CONSULTATION & REMEDIATION

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GENERAL SITE LOCATION MAP

Conservation Chemical Company 6499 Industrial Highway Gary, Indiana

Scale: 1" = 2500' Date: January, 2002

KPR Project No. 17094

FIGURE 1-1

1.3 General Description of Activities Performed

In general, the following investigative and remedial activities were performed in response to the Order:

- a. Site access, site security and a field operations office were established.
- b. An inventory of the aboveground drums, tanks, basins, lagoons, and potential asbestos containing materials (ACM) was performed.
- c. Sampling of the contents found in the aboveground drums, tanks, basins, lagoons, and ACM was performed to characterize each material for disposal or treatment.
- d. All scrap metal from tanks, towers, aboveground pipe, and drums, along with any miscellaneous metal found on the site, was cleaned, cut, and removed off-site for recycling.
- e. An extent of contamination study was conducted in the eastern one-third of the site. As a result of the findings, contaminated subsurface soils in certain "hot spot" areas were removed and disposed of off-site.
- f. Additional subsurface areas, as identified by EPA, were investigated for the presence of buried drums. The drums encountered were excavated, profiled for disposal, and properly disposed of off-site.
- g. A treatability study was performed for each of the sludge materials contained in the three (3) lagoons identified on-site. As a result of the study, the contents of each lagoon were stabilized to non-hazardous levels and placed on-site under a clay cap and clean topsoil. The capped areas were ultimately seeded to promote vegetation growth to assist in erosion control.
- h. An inventory of all existing groundwater monitoring wells on-site was performed and all of the wells identified abandoned in accordance with Indiana Department of Environmental Management (IDEM) regulations.
- i. As an alternative to installing a containment barrier along the southeast border, a concrete sewer was installed in the ditch on Gary/Chicago Airport property across the EJ & E railroad tracks which border the southeast perimeter of the CCCI site.
- j. All excavated areas were backfilled with clean fill.
- k. All aboveground structures were demolished and the resulting debris disposed of off-site.

- A railroad spur running through the central portion of the CCCI site was dismantled. The rails were sent to a metal recycler and the railroad ties disposed of off-site.
- m. The decontamination pad was removed and the entire CCCI site was leveled.
- n. The security fence surrounding the CCCI site was relocated to within the site's property line and replaced and/or repaired where required.
- o. The field operations office was demobilized.
- p. Custodial responsibility of the site was relinquished to EPA on August 23, 2000.

2.0 ESTABLISHMENT OF SITE CONTROL AND OPERATIONS

On July 1, 1999, KPR assumed the custodial responsibility of the CCCI site from EPA. As such the following activities were implemented:

2.1 Site Control

Access to the site was controlled by re-establishing and enhancing site security. This was accomplished by repairing the existing perimeter fence around the site, providing security guard service to monitor the site on a 24-hour basis, and establishing procedures for authorized access to the site.

2.1.1 Fence

The existing sections of fence were assessed for its integrity, its ability to prevent unauthorized access to the site by persons or ground animals and for its location in relationship to property boundaries. Portions of the existing fence not currently on property lines were relocated so that the fence coincided, as close as practicable, with actual property boundaries. The property lines were verified by the performance of a property survey and were identified by stakes.

Certain sections of the existing fence which were in disrepair were either replaced or refurbished to match the quality of acceptable fence sections. In areas where no fence existed, new sections of fence were installed.

The site entrance was re-established from Industrial Highway, across Western Scrap property, at the east property line of the site. This route was improved, graded, and routinely maintained to allow vehicular access and was demarcated by a newly constructed fence line.

The second or auxiliary gate established was the former entrance located at the northwest property line across property belonging to SES, Inc. and from Route 312. This gate was utilized as an emergency exit during on-site activities and was locked when not in use.

2.1.2 Site Security and Access Procedures

Site security was enhanced by employing a reputable guard service during the implementation of this Work Plan to monitor access to the site on a 24-hour basis. The firm providing this service (A&R Security) was stationed in the guard house during normal business hours and in the field operations office the rest of the time. The guard house was established at the site entrance access road off Industrial Highway. A sign was posted to visually mark the site entrance.

The security firm had the responsibility of assuring that all visitors sign in and their access approved prior to entering the site.

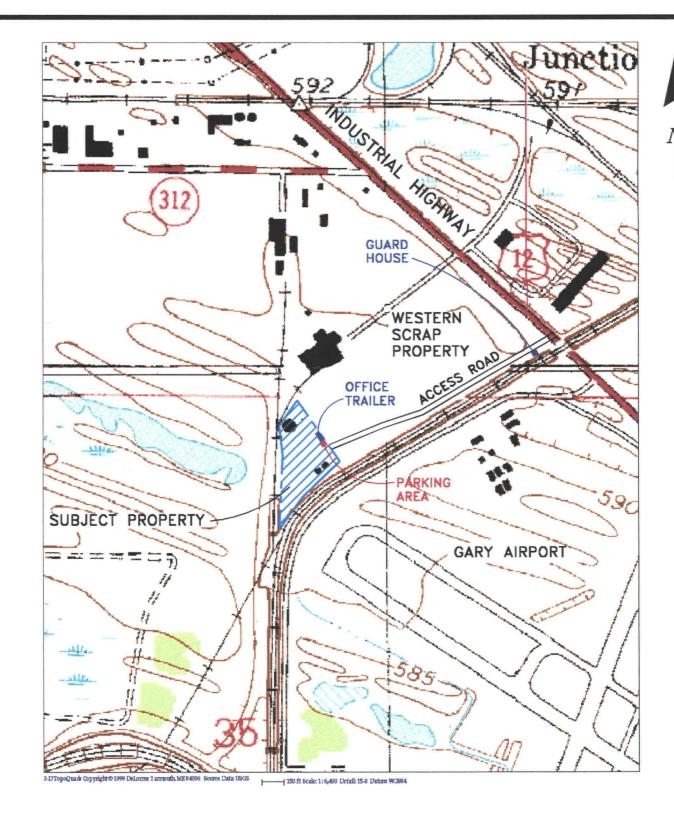
A list of contacts with jurisdiction over the site including the fire department, police department, EPA's OSC and emergency response groups, and other key individuals was provided to the security firm in the case of an emergency and clearly posted within the site field office.

2.1.3 Site Field Operations Office

An office trailer was located near the main entrance to the site.

Electric and phone service were established to the field office. Potable water service at the site was provided in the form of bottled water by a commercial water supplier. Suitable sanitary facilities were provided and routinely serviced by a qualified portable lavatory service contractor.

A designated parking area was established outside the field office. All personnel entering the site were required to park their vehicles in this designated area. No personal vehicles were allowed to enter the site without the permission of EPA or a designated representative of the PRP's. Figure 2-1 depicts the approximate locations of the fence line, office trailer, and designated parking area.





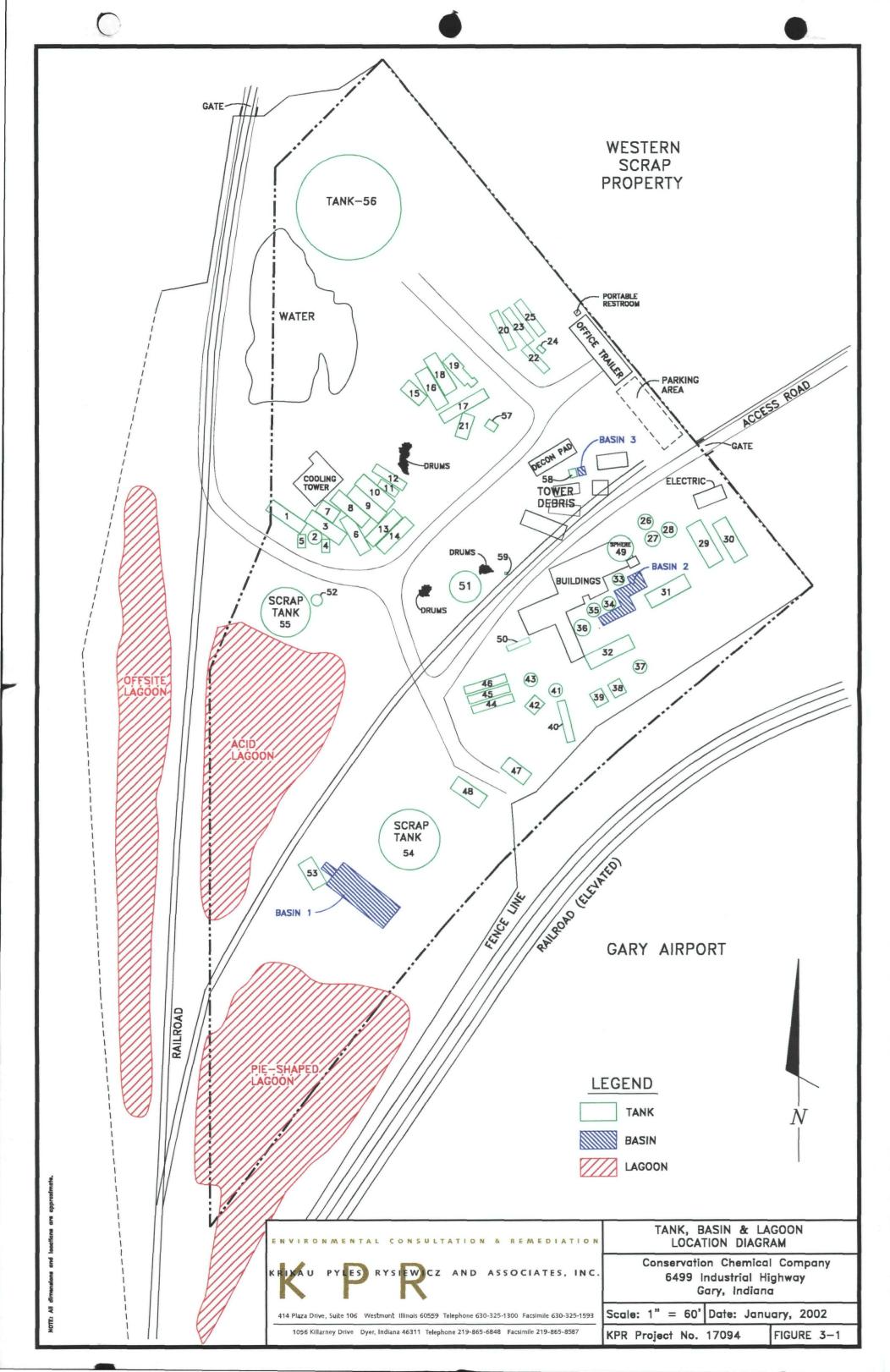
3.0 SITE INVESTIGATION/REMEDIATION ACTIVITIES

Present at the site were various sized aboveground storage tanks, three (3) basins, a multitude of drums, labpacks, three (3) lagoons, potential asbestos containing materials, monitoring wells, and aboveground structures. Each one of these items required further inspection and evaluation to determine the presence of hazardous materials. Prior to performing any of the on-site investigative activities, however, all areas that contained potential physical hazards were clearly identified as such through the use of caution tape, barricades or other warning barriers.

Once the materials encountered were identified and properly characterized, they were either removed off-site for appropriate disposal or treated on-site to non-hazardous levels for final disposition on the property. The specific site investigation and remedial activities performed are summarized in the following sections:

3.1 Storage Tanks

All storage tanks on-site were physically inspected to determine their integrity and contents. As a result of the inspection, a total of 59 tanks were identified. The approximate location of each tank on the site is depicted in Figure 3-1. Some of these tanks had been previously cut and cleaned but had accumulated rainwater, while others still contained potentially hazardous materials or were empty. A representative sample of the contents in each previously cleaned storage tank was obtained and analyzed for pH and total cyanide. For tanks with unknown contents, a representative sample from each was obtained for hazcat analyses. If a material was determined to be non-hazardous by the hazcat procedures then a second representative sample was analyzed for pH, total cyanide, TCLP metals, volatile organic compounds (VOC's), semi-volatile organic compounds (SVOC's), and PCB's to verify the non-hazardous Once all the tanks were sampled and the contents properly characterized, the contents were removed from each tank and the tanks cleaned. Ultimately, the tanks were sent off-site to a scrap metal recycler (Bethlehem Steel, Burns Harbor, Indiana or Gaby Iron & Metal, Chicago Heights, Illinois) or if rubber lined to a landfill (Newton County Landfill, Brook, Indiana) for disposal as a nonhazardous waste. Two of the tanks were of fiberglass construction. After cleaning, they were both crushed and the resulting debris sent to a non-hazardous landfill (CID-RDF, Chicago, Illinois). A detailed inventory was developed which identifies each tank encountered on the CCCI site, provides an estimate of the volume or quantity of



wastes in each tank, and lists the final disposal site for the contents and the tank. A copy of that inventory appears in Appendix B. Copies of the manifests and certificates of destruction documenting the hazardous contents from each tank along with the manifests documenting the non-hazardous contents are also included in Appendix B.

In summary, the total amounts of each category of waste found in the tanks are presented below.

SUMMARY OF TANK WASTES

Hazardous Liquids Acids		
Hazardous Solids Methylene chloride, n-butanol, etc		
Non-hazardous Petroleum Contaminated Soil 472.39 tons		
Non-hazardous Refactory Brick		
Non-hazardous Oily Solid		
Non-hazardous Oil		
Non-hazardous Sludge		
PCB Liquid 660 gallons		

3.2 Basins

Two (2) individual concrete basins containing liquids and sludges were originally identified on the CCCI site. During the performance of the remediation activities, a third basin containing waste materials was encountered. The approximate locations

of the original basins (Basin-1 and Basin-2), along with the additional basin (Basin-3), are identified on Figure 3-1.

Initially, representative samples of the liquids and sludges from each basin were both obtained for hazcat analyses. If the materials were determined to be non-hazardous by the hazcat procedures, as was the case for both the Basin-1 and Basin-2 samples, a second set of samples was analyzed for pH, total cyanide, TCLP metals, VOC's, SVOC's, and PCB's to verify the non-hazardous classification. The second set of samples obtained from Basin-1 and Basin-2 confirmed that both the liquid and sludge contained in Basin-2 and the liquid in Basin-1 were non-hazardous. The sludge from Basin-1, however, was determined to be hazardous. Copies of the analytical reports for the second set of samples are included in Appendix C.

The hazcatting procedures performed on the liquid and sludge contained in Basin-3 determined that those materials were hazardous.

As a result of the waste characterizations performed, it was determined to perform the following remedial activities on each basin:

BASIN-1

Liquid -

A total of 9,200 gallons of the liquid was pumped and removed from Basin-1. The non-hazardous liquid was disposed of at CID-RDF's biological water treatment facility.

Sludge -

The sludge was required to be stabilized by mechanically mixing the material with Omni Material's cement kiln dust. After stabilization was completed, a total of 584.52 tons of hazardous waste solid was disposed of at the EQ's Michigan Disposal Waste Treatment Plant located in Bellville Michigan.

After all materials had been removed, the basin was cleaned. The cleaning activities resulted in the generation of 680 gallons of hazardous waste liquid. This waste was disposed of at Clean Harbors, Inc. located in Chicago, Illinois (Profile No. CH143756). The basin was subsequently backfilled with imported aggregate material and leveled to grade.

Copies of the manifests and certificates of destruction documenting the disposal of the hazardous solid waste and liquid and the manifests documenting the disposal of the non-hazardous liquid waste are included in Appendix C.

BASIN-2

Since both the liquid and sludge materials found in Basin-2 were determined to be non-hazardous, the materials were left within Basin-2. During the leveling/grading of the site, the basin was filled in with crushed cinder block and imported aggregate stone and leveled to grade.

BASIN-3

Liquid -

A total of 3,500 gallons of hazardous liquid was pumped and removed from Basin-3 and disposed of at Clean Harbors/Chicago, Illinois (Profile No. CH144068).

Sludge -

The amount of residual sludge that was removed from Basin-3 was not uniquely quantified since it was compatible with and was ultimately combined with the waste contained in Tank No. 51. The total amount of hazardous waste solids removed from Tank No. 51 was 24 cubic yards which was disposed of at Clean Harbors/Kimball, Nebraska.

Copies of the manifest and certificate of destruction documenting the disposal of the liquid hazardous waste are also included in Appendix C.

After all material had been removed, the basin was cleaned. The cleaning activities resulted in the generation of a small volume of hazardous waste liquid. This liquid was also placed into Tank No. 51. After the basin had been cleaned, it became apparent that it was constructed of unlined metal and not concrete as originally thought. Therefore, the cleaned steel basin was excavated, cut and sent off-site to Bethlehem Steel for metal recycling. The resulting excavation was backfilled with imported aggregate material and leveled to grade.

3.3 Drums

3.3.1 Aboveground Drums

A large number of abandoned 55 gallon drums were present aboveground at the

site. The majority of these drums were previously staged by others in designated areas, however, additional drums were discovered during the performance of the on-site remedial activities. A total of 165 drums were ultimately encountered. Some of these drums were empty, a few contained general rubbish, while the majority contained potential hazardous materials. A representative sample was obtained from each drum containing potential hazardous materials for hazcat analysis to assess the viability of bulk loading and subsequent disposal of the wastes. Based on the information resulting from the drum investigation and the hazcat procedures, the drums were segregated into the following categories and waste streams and disposed of as listed.

Category	Total Number of Drums	Amount of Waste	Final Disposition of Wastes
Hazardous Waste Solid* (Tetrachoroethane, xylene)	46	13 cubic yards	Clean Harbors (Profile No. CH144097)
Hazardous Waste Solid* (Toluene, TCE)	67	13 cubic yards	Clean Harbors (Profile No. CH144098)
Hazardous Waste Liquids	38	Unknown	Combined with wastes in Tank No. 51 and disposed of at Clean Harbors
Trash	3	Unknown	CID-RDF Landfill
Empty	11		

^{*} Some of these drums also contained a liquid portion. These liquids were initially drained off and combined with the wastes in Tank No. 51.

After cleaning, the salvageable drums were crushed and sent to Bethlehem Steel as miscellaneous scrap metal for recycling. Copies of the manifest and certificates of destruction documenting the disposal of the hazardous wastes from the drums are included in Appendix D.

3.3.2 Buried Drums

One of the activities outlined to be performed in the Work Plan was a magnetometer study on the eastern one-third of the site to detect any buried drums or tanks in that area. While performing test pit trenches in that area, however, a significant number of underground pipes were encountered. EPA, therefore, agreed to waive the requirement of performing the magnetometer study because of those interferences. Instead of the study, the PRP's were directed to perform a subsurface investigation in other areas of the site. These areas were generally located near Tank Nos. 55 and 56, the vicinity of the former wooden cooling tower, and by the roadway near the decontamination pad. During this investigation, a significant amount of buried drums and containers potentially containing hazardous materials were encountered. The buried drums were excavated and staged on a plastic liner, along with any other orphaned drums encountered during the performance of other subsurface activities such as soil removal or lagoon stabilization. Representative samples of the drummed material were obtained and analyzed to characterize the material. As a result, some of the material was determined to be hazardous. The staged material was ultimately shredded and segregated into either a hazardous or non-hazardous pile. A total of 111.18 tons of non-hazardous shredded drum debris, primarily consisting of empty steel drums, drum lids and rings, and plastic drum liners, was disposed of at the CID-RDF landfill (Profile No. JF027). A total of 60 cubic yards of shredded hazardous waste solid debris was disposed of at EO's Michigan Recovery Systems disposal site (Approval No. 051600EAC). Copies of the manifests and certificates of destruction documenting the disposal of the hazardous waste materials and the manifests documenting the disposal of the non-hazardous waste materials are also included in Appendix D.

3.4 Labpacks

As a result of prior investigation activities performed by others on the CCCI site, approximately five (5) labpacks containing small quantity containers of hazardous chemicals were present. These labpacks, along with the small quantity of additional hazardous chemicals discovered during the investigation of the property, demolition of structures, and excavation activities, were repackaged as labpack items by Clean Harbors, Inc. A total of 32 fiberglass containers containing variable amounts of waste flammable solids, flammable and corrosive liquids, oxidizing liquids, acids, and paints

were ultimately removed from the site and disposed of at Clean Harbors (Profile No. CH144200). Copies of the manifests and certificates of destruction documenting the disposal of these wastes are included in Appendix E.

3.5 Lagoons

The three (3) lagoon areas subjected to this Order are depicted in Figure 3-1 and are identified as the "pie basin" lagoon, "acid" lagoon, and "off-site" lagoon. Initially, an investigation was conducted to determine whether further stabilization of each lagoon was required. In accordance with the procedures outlined in the Work Plan, a total of eight (8) representative samples from the pie-shaped lagoon, six (6) representative samples from the acid lagoon, and four (4) representative samples from the off-site lagoon were obtained. These samples were each analyzed for total and hexavalent chromium, TCLP metals, and PCB's. Further stabilization would be deemed necessary if the TCLP chromium level exceeded 5 mg/L, the hexavalent chromium level exceeded 200 ppm, and/or the sludge material in any of the lagoons contained excess water. As a result of the initial characterization sampling performed, it was determined that some of the sludge in the pie-shaped lagoon was hazardous while the sludges in both the acid and off-site lagoons were non-hazardous. None of the sample results indicated the detection of PCB's (>50 ppm) or any other contaminants of significant concern. However, all the sludge in the acid and off-site lagoons required some stabilization because of the obvious water content.

A treatability study was performed to determine the additional neutralization requirements. The treatability study consisted of combining representative portions of the lagoon samples with varying percentages of several alkaline stabilizing agents. As a result of the study, it was concluded that the mixture of 10% lime kiln dust and 90% sludge would render the sludge non-hazardous and of suitable structural integrity to be left on-site. It should be noted that the entire off-site lagoon and portions of the acid and pie-shaped lagoons were not on the CCCI property. Once all the off-site materials were adequately stabilized, EPA agreed to allow this material to be placed on the CCCI site in the northwest corner near the former location of Tank No. 56, in the vicinity of Basin-1, and also upon the on-site portions of the acid and pie-shaped lagoons.

Utilizing a track hoe, the sludge materials in all three (3) lagoons were mechanically mixed with lime kiln dust supplied by Omni Materials. After stabilization of the materials in each lagoon was apparently complete, representative samples from each lagoon were obtained to document the adequacy of the stabilization. Specifically, four (4) representative samples along with two (2) duplicate samples were obtained from the off-site lagoon for TCLP and hexavalent chromium analyses. Based on these results, it was determined that the sludge in the off-site lagoon had been adequately stabilized since the acceptable levels for TCLP chromium and hexavalent chromium were not exceeded. The stabilized sludge was subsequently loaded into a dump truck, shuttled to the northwest corner of the property and placed in approximately one foot lifts upon a prepared clay surface. The bottom of the off-site lagoon was restored to original grade with a layer of 3 inch rock. The sidewalls of the lagoon were seeded and/or secured with erosion control blankets.

A total of four (4) representative samples along with one (1) duplicate sample were obtained from the acid lagoon to document the adequacy of stabilization. The analytical results for TCLP and hexavalent chromium were also well below the acceptable levels for each analyte. The stabilized sludge in the off-site portion of the acid lagoon was transferred and placed in one foot lifts on the stabilized portion of the acid lagoon on the CCCI property. The bottom of the off-site portion of the acid lagoon was lined with a layer of 3 inch rock. The sidewalls of this portion were seeded and/or secured with erosion control blankets.

The pie-shaped lagoon, which contained hazardous material, required several iterations of stabilization and subsequent additions of both fly ash and ferric chloride in some areas to ultimately demonstrate acceptable concentration levels. However, when the specified levels were achieved in each of the ten (10) subdivided areas of the lagoon, the off-site portions were placed on the CCCI property either near Basin-1 or on the stabilized on-site portions of the acid and pie-shaped lagoons. The off-site portion was backfilled to original grade with 3 inch rock to promote drainage and to support the EJ & E railroad embankment.

The analytical results of the final documentary samples obtained for each lagoon are tabulated below:

Lagoon	Sample I.D.	TCLP Chromium	Hexavalent Chromium
		Concentration (mg/L)	Concentration (mg/kg)
Off-site	5-1	0.350	27
	5-1D	0.344	<15
	6-1	< 0.040	<15
	7-1	0.417	<15
	7-1D	0.393	21
	8-1	0.908	15
Acid	9-1	0.602	19
	10-1	0.076	22
	10-1D	0.166	30
	11-1	0.233	27
	12-1	0.290	<15
Pie-shaped	13-1	>5.0	<1.4
	13-4*	4.32	<14
	13-6	3.77	<14
	13-6D	3.42	<14
	14-1	>5.0	34
	14-4	4.76	118
	14-4D	4.76	123
	15-1	>5.0	36
	15-3	3.56	-
	15-3D	3.39	_
	16-1	>5.0	<1.4
	16-4	3.99	<14
	16-4D	3.93	23.3
<u>:</u>	17-1	>5.0	<1.4
	17-1D	3.6	<1.4
	17-4	3.80	<14
	17-4D	3.42	17
	18-1	2.5	<1.4
	19-1	4.23	<1.4
	20-1	0.20	<1.4
	21-1	0.093	<1.4
	22-1	0.28	<1.3

^{*}During the lagoon documentation sampling, EPA periodically split samples and conducted their own independent analysis. Since the EPA split sample for 13-4 was >5.0, this sample was deemed not acceptable.

The stabilized sludge from all lagoons was capped with at least two feet of clay and 3 inches of topsoil. The capped areas were subsequently seeded to promote vegetation growth that would inhibit erosion and assist in keeping the clay surface intact.

Diagrams depicting the approximate sampling locations in each lagoon with the corresponding analytical results for both initial characterization and final documentary closure are included in Appendix F.

3.6 Asbestos Containing Material (ACM)

An ACM assessment was initially performed at the site to identify all potential ACM on the property since potential ACM in the forms of piping/equipment insulation, building materials, and tank coatings was observed. Fourteen (14) potential ACM materials in various locations were ultimately sampled and analyzed for asbestos content. A copy of the analytical report documenting the analyses is included in Appendix G. A tabulated summary of the representative samples obtained and whether or not the particular material tested was ACM is presented below:

Location/Material	ACM Determination
Tank No. 3/Exterior Coating	Yes
Tank No. 11/Insulation	Yes
Tank No. 8/Exterior Coating	Yes
Tank No. 18/Exterior Coating	Yes
Cooling Tower Panels	Yes
Tank No. 26/Exterior Coating	Yes
Tank No. 27/Exterior Coating	Yes
Tank No 28/Exterior Coating	Yes
Tank No. 33/Exterior Coating	Yes
Transite Wall Panels	Yes
Tank No. 38/Brick Liner	No
Tank No. 39/Brick Liner	No
Cyanide Tower Insulation	Yes
Tank No. 14/Exterior Coating	Yes

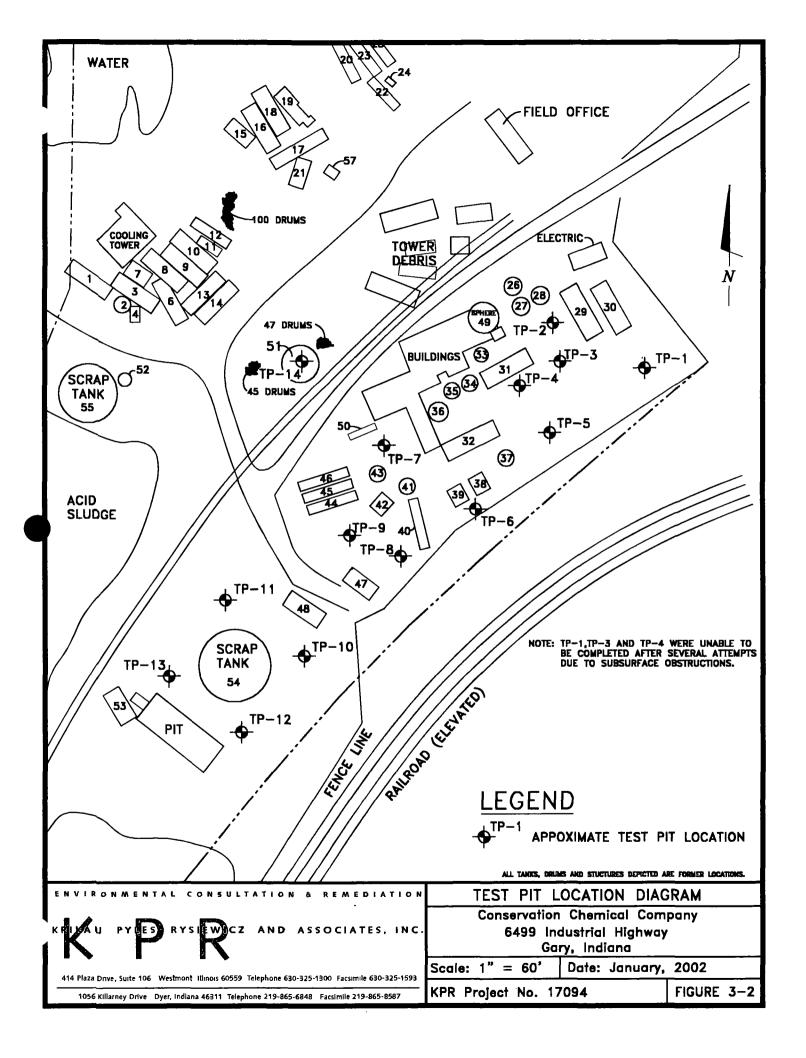
Based on the results of the ACM investigation, all materials verified to be ACM were removed by a licensed contractor after proper notifications were made, as required, to IDEM. Copies of the notifications are included in Appendix G.

All ACM removal was performed prior to the dismantlement or demolition of the aboveground structure or tank having ACM. A total of 275 bags (estimated to be approximately 30 cubic yards) was accumulated in a secured container during the abatement effort and was ultimately disposed of at the Newton County Landfill located in Brook, Indiana. A copy of the waste profile sheet, approval letter, and manifest documenting the disposal are also included in Appendix G.

3.7 Extent of Contamination

Originally, an investigation to determine the extent of residual contamination in the surface and subsurface soils was to be performed on the eastern one-third of the site and in selected "hot spot" areas in the tank and drum storage areas. This investigation was to be performed by advancing a total of fourteen (14) soil borings. However, EPA and the PRP's instead agreed to perform the investigation by excavating fourteen (14) test pits, each to a depth of 7 feet, at the originally proposed locations of the soil borings. While excavating, numerous underground impediments were encountered such as old building foundations and underground pipes which were believed to be remnants of the Berry Oil Refinery Co. operation, the occupant of the property prior to CCCI. These impediments prevented the excavation of test pits at three (3) locations. At the other eleven (11) locations, however, a representative sample of the most contaminated area, based on field observations, was obtained from each test pit. These samples were each analyzed for PCB's, total cyanide, TCLP metals, TCLP VOC's and TCLP SVOC's. The locations of the samples are depicted in Figure 3-2. The results of the analytical results indicated hazardous concentrations of trichloroethene at TP-12 (near Basin-1) and TP-14 (near Tank No. 51) and of lead at TP-5. Because the lead result at TP-5 was believed to be an anomaly, this location was resampled again for lead. Since the second sample at TP-5 did not confirm the presence of a hazardous level of lead, lead was no longer considered an issue at this location. A summary of the analytical results obtained along with the supporting analytical reports are included in Appendix H.

At the request of EPA, the PRP's agreed to excavate and properly dispose of a limited amount of soil near Basin-1 and from beneath Tank No. 51. As a result, a total of



152.82 tons of hazardous waste soil were excavated and disposed of at EQ's Michigan Disposal Waste Treatment Plant (Approval No. 021600MJ). Copies of the manifests and certificates of destruction documenting the disposal of this waste are included in Appendix H. The resulting excavations were backfilled to grade with imported aggregate material.

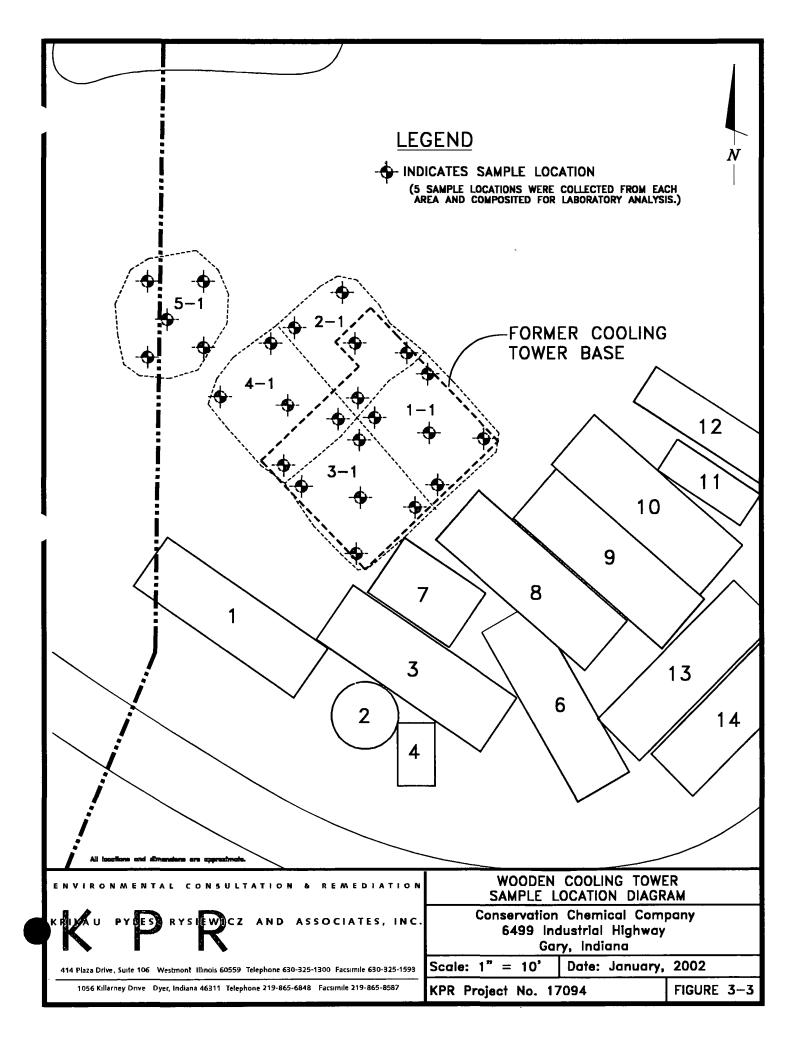
Also at the request of EPA, the PRP's agreed to perform surficial and subsurface sampling beneath and in the vicinity of the former wooden cooling tower. A total of ten (10) composite samples were obtained from the areas depicted in Figure 3-3. Five of the samples were obtained from the surface while the remaining five samples were obtained from a depth of 3 feet. An additional surficial soil sample was obtained near the vicinity of Tank Nos. 26, 27, and 28 and one north of Basin-1. All of the samples obtained were analyzed for total, TCLP and hexavalent chromium. The results of the analyses indicated that no hazardous levels of either chromium or hexavalent chromium were detected and, therefore, the material in each area was allowed to be left in place. A copy of the laboratory report documenting the analytical results is included in Appendix I.

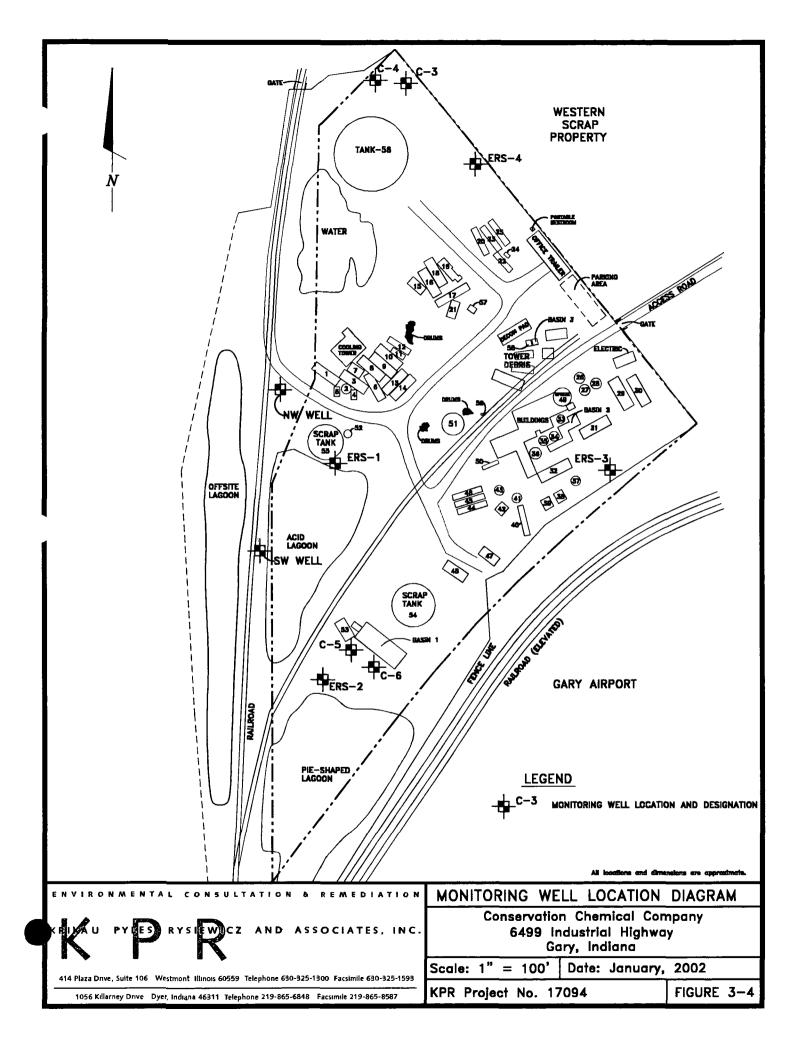
3.8 Groundwater Monitoring Wells

A site investigation and a review of pertinent records were performed to identify and locate the groundwater monitoring wells present at the site. A total of ten (10) wells were identified. The approximate location of each well is depicted in Figure 3-4. Each well was closed utilizing applicable methods prescribed and defined by the Indiana Department of Public Health and in accordance with IDEM regulations (310IAC 16-10-2). The closure method utilized over-drilling and included sealing each well with an impervious bentonite/cement mixture that was placed using the tremie-pipe method, removal of aboveground monitoring well appurtenances, and the completion and submittal of Indiana State Form No. 35680 to document the proper closure of each well. Copies of the forms filed with the Indiana Department of Natural Resources are included in Appendix J.

3.9 Containment Barrier/Sewer Pipe

One of the original requirements in the Order was to install a containment barrier along the southeast border of the site to control petroleum migration off-site. While performing test pit excavations in that area, numerous underground pipes and





subsurface foundations were encountered. It was jointly determined between EPA and the PRP's that the proposed installation was no longer feasible. An alternate strategy was developed to reduce the potential for petroleum migration to the Gary/Chicago Airport property located directly across the EJ & E railroad tracks. This strategy, which negated the need for the containment barrier, included the installation of a drainage pipe in a ditch at the north end of the runway on airport property. The main section of the pipe, totaling approximately 1,120 linear feet, was constructed using 36-inch diameter concrete pipe. Three (3) 24 linear feet long tributaries using smaller diameter concrete pipe (24-inch and 18-inch) were installed to connect at new manholes in identified drainage areas. In addition, six (6) clay checks were constructed at approximately 200 foot intervals along the main section of the pipe to control petroleum migration. A test port was installed upstream of each clay check to monitor for the presence of oil and to allow for the pumping and removal of any oil that may be encountered. The installation was designed by the Gary/Chicago Airport's Engineer (Ken Ross) to assure that construction was in accordance with Federal Aviation Administration (FAA) requirements. A diagram depicting the sewer installation along with the formal certification signed by Ken Ross that all applicable FAA construction requirements were met are included in Appendix K. This work was completed by November 30, 2001 and marked the completion of the remedial activities of this Work Plan.

3.10 Miscellaneous Material, Waste and Debris Removal

Included in the remedial activities performed at the CCCI site were the following activities:

- Demolition and removal of the wooden cooling tower, several buildings, tank supports, overhead piping, a wooden flatbed truck trailer, and a tractor.
- Excavation and removal of the railroad spur running approximately through the center of the CCCI site.
- Removal of non-hazardous debris and trash.
- Removal of salvageable scrap metal.
- After all field activities on the CCCI site were completed, cleaning and removal of the decontamination pad.

As a result of these activities, the following amounts of materials were removed from the site:

•	Construction and demolition debris/trash	215 cubic yards to CID-RDF
		139.56 tons to CID-RDF
		92.4 tons to Newton County Landfill
•	Rubber lined scrap steel	258.96 tons to Newton County Landfill

•	Railroad ties	63.25 tons to Newton County Landfill

Tractor motor oils	85 gallons to Clean Harbors, Inc.
	Spring Grove Resource Recovery
	Cincinnati, Ohio
	(Profile No. CH144198)

•	Scrap metal for recycling	427 net tons to Bethlehem Steel
		3.05 net tons to Gaby Iron & Metal

•	Concrete for recycling	4 truckloads to Bob Heine, Inc.
		(Gary, Indiana)

Discarded tires	Approximately 100-125 tires
	found on-site were quartered and
	sent either with the shredded drum
	wastes to CID-RDF, the Basin-1
	solids to EQ's Michigan Recovery
	Systems, or to Newton County

Landfill

3.11 Documentary Photographs

Copies of pertinent photographs documenting significant observations, activities performed or on-site conditions are included as Appendix L.

4.0 SAMPLING AND ANALYSIS PLAN

The Sampling and Analysis Plan described within the Work Plan was utilized to define the sampling and data gathering methods implemented during the site investigation and remedial activities. This plan also identified the physical and chemical analyses that were performed.

4.1 Sampling Objective

The primary data uses of the various samples obtained at the site during the implementation of the Work Plan were for site investigation, source characterization, hazard determination, disposal profiling, and treatment effectiveness.

4.2 Sampling Procedures

In accordance with the Work Plan or EPA directives, sampling of various tanks, containers, materials, and a variety of medias such as air, liquid, solid and sludge were undertaken. The sampling was performed in accordance with EPA-approved methodologies utilizing clean sample containers provided by the approved laboratory (TestAmerica, Bartlett, Illinois) and required sampling equipment, including but not limited to bailers, buckets, stainless steel spoons, track hoes, pumps, knives, etc. To reduce the potential for cross contamination, each sample was obtained with either disposable sampling equipment or equipment that had been properly decontaminated beforehand. All wastes generated on-site during sampling activities and sampling equipment decontamination were properly containerized, sampled for characterization determination, and managed in accordance with applicable regulations. All samplers wore the requisite personal protective equipment (PPE) during each sampling episode. Appropriate notification was made to EPA, as required by the Order, in advance of any sample collection activity.

4.3 Sample Designation

The sample identification system developed and utilized for this project included the following sequential information:

- Name of site CCCI site (CCCI)
- Sample source Tank (T), Drum (D), Basin (B), Labpack (L), Lagoon Sludge (LS), Test Pit (TP), Cooling Tower (CT)

- Source description Identification number assigned to each sample source
- Sample number Sequential number to distinguish multiple samples obtained from each specific source
- QA/QC modifiers Duplicate (D), Trip Blank (TB)

All field samples were identified with sample identification labels that included the above sample identification and the following additional information:

- Name of sample collector;
- Affiliation of collector;
- Date and time of collection; and
- Analysis request

A chain-of-custody record was completed and accompanied each shipment of sample(s) to the laboratory.

5.0 QUALITY ASSURANCE PLAN (QAP)

A detailed QAP was presented with the Work Plan. The Data Quality and Quality Assurance Objectives outlined within that QAP were intended to ensure that the data collected were sufficient and were of adequate quality for their intended use at the CCCI site. The primary data uses were for source characterization, hazard classification (hazcatting), disposal profiling and evaluation of remedial treatment activities, as well as for health and safety measures.

5.1 Level of QC Effort

Since the laboratory analyses were performed in accordance with EPA procedures and methodology, it is believed that the requisite level of Quality Assurance (QA) and Quality Control (QC) were met.

Data comparability was demonstrated by obtaining duplicate samples. The guideline followed for replicate sampling was to include one (1) duplicate sample for each group of at least five (5) but not greater than twenty (20) samples for all matrices. In some instances, however, a duplicate sample was obtained even when the sample quantity was less than five (5). A trip blank was included with the initial shipment of VOC samples obtained during the test pit sampling, however, no documentary closure sampling for VOC's was either required or performed during the implementation of the Work Plan remedial activities. It should be noted that the specified QA/QC sampling was also not required for waste characterization or classification, treatability testing or disposal profiling. It should also be noted that during certain sampling episodes, data comparability was also verified by EPA through split sampling.

5.2 Data Validation

The selected laboratory utilized for this project (TestAmerica) performed in-house analytical data reduction and validation under the direction of the respective laboratory QA supervisor. The laboratory review included checks for the attainment of QC criteria as outlined in applicable EPA procedures and methods. The validity of analytical data was also assessed by comparing the analytical results of duplicate samples.

Additionally, the laboratory critiqued their own analytical programs by using spiked additional recoveries, established detection limits, precision and accuracy control charts and by keeping accurate records of the calibration of instruments.

Corrective action, if it was determined to be required by audit results or detection of unacceptable data included, but was not limited to, the following:

- Accepting data with an acknowledged level of uncertainty.
- Eliminating outliers identified by the validation task.
- Re-analyzing samples if holding time criteria was not exceeded.
- Re-sampling and analyzing site areas in question.
- Evaluating and amending sampling and analytical procedures.

In addition, the data obtained for documentary samples was further scrutinized by an independent third party data validation firm, Environmental Science and Engineering, Inc. (ESE) located in St. Louis, Missouri. ESE was routinely requested to review and critique the analytical reports prepared by TestAmerica for documentary closure sampling performed at the CCCI site. Copies of ESE's reviews were provided to EPA during the course of this project and are hereby included in Appendix M of this report.

When concerns or questions regarding analytical data were raised by ESE, every reasonable effort was undertaken to provide a suitable explanation that would clarify a misconception or rectify the anomaly. Obviously, however, some sampling and subsequent analysis could not be reproduced because of the dynamic nature of the ongoing remedial activities at the CCCI site.

In summary, it was concluded that the pertinent analytical data obtained included within this report was of sufficient quality to successfully validate and substantiate the integrity of the analytical results obtained within the scope of the Work Plan.

6.0 HEALTH AND SAFETY

6.1 Objective Statement

The health and safety of each Company's and/or Agency's workers, contractors, and visitors at the CCCI site were of the highest priority. It was the policy of the PRP's, the Project Safety Officer (PSO), and the OSC to provide a safe and healthful work place for each Company's and/or Agency's workers, contractors, and visitors through the establishment of safety rules, procedures, and programs that were strictly and uniformly enforced. As a result, each Company's and/or Agency's workers, contractors, and visitors complied with the applicable federal, state, and local safety standards, codes, and regulations throughout the duration of the CCCI project.

6.2 Responsibilities

6.2.1 Project Safety Coordinator

The PSO, or designated backup PSO, was responsible for the daily supervision of all health, safety, decontamination, and monitoring activities associated with each phase of the CCCI project. The PSO was responsible for informing and training contractors and their employees in the specific hazards, work methods, emergency procedures, and personal protective equipment that were required during their work.

As part of this responsibility, the PSO was also responsible for enforcing the provisions of the Health and Safety Plan developed within the Work Plan and site specific safety rules and procedures. The PSO was provided with the authority to stop work activities deemed to be unsafe or dangerous. The PSO worked closely with the OSC to assure that operations were performed in a safe and efficient manner.

6.2.2 Contractors

Contractors were responsible for complying with the requirements of the Health and Safety Plan and for following the specific instructions of the PSO. The contractor's on-site supervisor ensured that his employees followed all applicable rules and procedures identified in the Health and Safety Plan and by the PSO.

6.2.3 Site Workers

All persons working at the CCCI project were required to comply with the requirements of the Health and Safety Plan and the instructions provided by the PSO. Regarding safety consideration, site workers were responsible for:

- Only performing jobs for which they had specific training
- Following prescribed safety rules and regulations
- Using required personal protective equipment
- Reporting all unsafe conditions/work practices that they were aware of
- Reporting all injuries to their supervisor, no matter how minor

6.3 Project Hazard Identification & Protection

Many chemical and physical hazards were present at the CCCI site. Those specifically identified during the implementation of the Work Plan included the presence of hazardous/toxic chemicals and materials, such as acids, caustics, cyanide, organic solvents, asbestos, chrome and other RCRA metals, and PCB's, in solid, liquid, and/or gaseous forms.

A variety of physical hazards were also present. These hazards were treated to be as potentially dangerous as the chemical hazards and included, fall hazards, electrical hazards, excavation related hazards, confined space hazards, heavy equipment related hazards, demolition hazards, noise, and temperature extremes.

6.4 Project Safety Procedures

Site specific procedures were developed to minimize the exposure to adverse impacts from the chemical and physical hazards present at the site. To that end, the following general safety rules were strictly adhered to:

- All persons entering the site were required to register with the on-site security firm.
- All persons granted access to the site were required to read the site Health and Safety Plan and certify that they understood and would comply with its requirements.

•

- All persons entering the site were required to comply with the requirements in the Health and Safety Plan and the instructions provided by the PSO, OSC, or representatives of the PRP's.
- All persons that entered or worked at the site were made familiar with the location and use of all emergency equipment including fire extinguishers and first aid equipment.
- Persons were required to wear the appropriate respiratory protection and other personal protective equipment while performing tasks at the site.
- All persons that entered or worked at the site made every reasonable effort to avoid contact with potentially hazardous substances unless adequately protected.
- The consumption of food or beverages by any person was strictly prohibited when inside of the exclusion or contamination reduction zones.
- Smoking, matches, lighters, and any other spark or flame producing activity were strictly prohibited within the exclusion or contamination reduction zones.
- Personnel worked in pairs when work required the use of respiratory protective equipment, when any excavation or aboveground structure was entered or while working near or above any pit, lagoon, or liquid containing structure.
- All persons that exited the exclusion and contamination reduction zones were required to wash face and hands immediately.
- Protective equipment such as respirators, boots, gloves, non-disposable clothing were decontaminated or disposed of properly before being removed from the exclusion or contamination reduction zones.

Site and work zone control was created and implemented by maintaining and repairing, as needed, the perimeter fence around the entire site, implementing 24-hour site security, and by establishing exclusion, contamination reduction, and support zones as required. These steps helped to prevent unauthorized access onto the site and

minimized or eliminated the transfer of hazardous substances onto the "clean" area of the property.

Visitors and workers were prohibited from entering the exclusion or contamination reduction zones unless the proper protective clothing and respiratory protection was worn.

Additional measures were undertaken at the site to protect workers and enhance site safety by implementing an air monitoring program. The program consisted of initial screening of areas and workers, perimeter and worker exposure monitoring during significant field activities, and atmospheric monitoring for confined space environments. The air monitoring program helped to assure that worker exposure to unsafe environments without the appropriate personal protective equipment was eliminated, helped to identify the necessary health and safety equipment for performing each task, and ascertained if certain work tasks caused any negative impact on the ambient environment. As a direct result of the monitoring, unprotected worker exposure to unsafe environments was eliminated.

Decontamination procedures to both workers and personal protective, sampling, and heavy equipment were implemented and strictly enforced. An overhead shower alongside the formally constructed decontamination pad was routinely utilized to prevent the transfer of contaminants from contaminated to uncontaminated zones. All contaminated disposable equipment and contaminated wash waters resulting from the decontamination of non-disposable equipment were ultimately managed in accordance with applicable regulations.

6.5 Auditing the Effectiveness of the Site Health and Safety Plan

Safety audits were conducted both periodically and prior to the commencement of major activities at the site to assure the effectiveness of the CCCI Site Health and Safety Plan. These audits were designed to determine compliance with the requirements of the Health and Safety Plan along with commonly accepted safety practices. The audits were performed by both the PSO and by an experienced independent health and safety consultant. As a result of the audits, only minor inadequacies were identified and those were promptly corrected. In addition, not one significant injury or adverse health effect occurred during the performance of investigative or remedial activities on the CCCI site.

7.0 MONTHLY REPORTS

As required by the Order, written progress reports were submitted to EPA on a monthly basis. Each report described the significant developments during the preceding period, including the work performed and any problems encountered, analytical data received during the reporting period, and developments anticipated during the next report period, including a schedule of work to be performed, anticipated problems, and planned resolutions of past or anticipated problems. The initial report was prepared for the month of June, 1999 and subsequent reports were written through the month of December, 2001. Copies of all of the reports prepared to date are included in Appendix N.

8.0 PROJECT COSTS

The total cost incurred as of December 31, 2001 to implement the activities outlined within the Work Plan and those modified activities subsequently agreed to by EPA and the PRP's amounted to \$2,149,542. Table 8-1 is a detailed project cost summary table, which provides the individual task expenditures on a monthly basis.

TABLE 8-1
ATION CHEMICAL COMPANY OF ILLINOIS

						nvoice Period &	Amount Invoice	d				
Dec 99	Jan 2000	Feb 2000	Mar 2000	Apr 2000	May 2000	Jun 2000	July 2000	Aug 2000	Sept 2000	Oct 2000	Nov 2000	Dec 2000
\$16,453	\$34,417	\$30,133	\$41,686	\$36,200	\$60,881	\$36,850	\$27,492	\$10,231	\$6,048	\$1,388	\$4,685	\$1,634
\$9,953	\$13,541	\$9,660	\$12,075	\$9,660	\$7,246	\$14,783	\$9,953	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$906	\$0	\$0	\$0	\$0	\$0	\$0	\$722	\$0	\$0	\$0	\$0	\$0
\$1,314	\$0	\$0	\$845	\$0	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$500	\$0	\$1,050	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$48,462	\$47,647	\$36,770	\$81,712	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$0
\$0	\$0	\$0	\$1,695	\$0	\$1,458	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$11,411	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$41,031	\$104,839	\$117,185	\$67,186	\$7,712	\$52,582	\$596	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0_	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$3,611	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$1,000	\$0	\$0_	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0_	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,569	\$1,081	\$0	\$0
\$0	\$0	\$0	\$0	\$30,372	\$874	\$35,342	\$0	\$0_	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	(\$1,469)	(\$122)	\$0	(\$238)	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0_	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,664	\$0	\$0	\$0	\$0
\$2,300	\$15,641	\$0	\$1,200	\$0	\$27,269	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0_	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0_	\$1,000	\$0	\$1,000	\$1,624	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$595	\$541	\$978	\$627	\$0	\$0	\$0	\$569	\$0
\$0	\$601	\$656	\$0	\$0	\$1,632	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0_	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$94,410	\$114,347	\$1 18,250	\$246,102	\$194,167	\$167,340	\$95,790	\$91,138	\$33,491	\$14,617	\$2,469	\$5,254	\$1,634

TABLE 8-1 (CONT.)

VATION CHEMICAL COMPANY OF ILLINOIS

	_					
				Total	Amount	
1	Oct 2001	Nov 2001	Dec 2001	Invoiced	Remaining	Status of Tasks
34	\$3,492	\$0	\$2,028	\$537,419	\$212,581	Ongoing/Post Closure Monitoring
04	\$0	\$0	\$0	\$134,474	\$35,526	Complete
04	\$0	\$0	\$0	\$10,571	\$29	Complete/Demobilization cost included in Task 1
03	\$0	\$0	\$0	\$4,219	(\$1,619)	Complete
\$ 0	\$0	\$0_	\$0	\$46,931	\$14,069	Complete
\$0	\$0	\$0	\$0	\$7,866	\$7,134	Complete
\$O_	\$0	\$0	\$0	\$32,014	(\$14)	Complete
\$0	\$0	\$0	\$0	\$429,162	\$20,838	Complete
\$0	\$0	\$0	\$0	\$16,451	(\$3,151)	Complete
\$0	\$0	\$0	\$0	\$82,009	\$37,991	Complete
\$0	\$0	\$0	\$0	\$395,559	(\$232,559)	Complete
\$0	\$0	\$0	\$0	\$34,860	\$140	Complete
\$0	\$0	\$0	\$0	\$0	\$0	Complete
\$0	\$0	\$0	\$0	\$0	\$30,000	Complete
\$0	\$0	\$0_	\$0	\$3,611	\$6,389	Complete
\$0	\$0	\$0	\$0	\$13,192	\$26,808	Complete
\$0	\$0	\$0	\$0	\$0	\$0	Complete
\$0	\$0	\$169,428	(\$2,028)	\$177,050	(\$37,050)	Complete
\$0	\$0	\$0	\$0	\$66,588	(\$16,588)	Complete
\$0	\$0	\$0	\$0	\$11,633	\$15,367	Ongoing
\$0	\$0	\$0	\$0	\$58,752	\$1,248	Complete
\$0	\$0	\$0	\$0	(\$37,832)	\$0	Complete
\Box						
\$0	\$0	\$0	\$0	\$0	\$0	Complete
\$0	\$0	\$0	\$0	\$31,237	\$3,763	Complete
\$0	\$0	\$0	\$0	\$0	\$0	Complete
\$0	\$0	\$0	\$0	\$745	\$55	Complete
\$0	\$0	\$0	\$0	\$22,664	(\$19,664)	Complete
\$0	\$0	\$0	\$0	\$46,410	\$0	Complete
\$0	\$0	\$0	\$0	\$0	\$0	Complete
\$0	\$0	\$0	\$0	\$9,674		Ongoing
\$0	\$0	\$0	\$0	\$9,505	\$5,495	Complete
\$0	\$0	\$0	\$0	\$4,778	\$10,222	Complete
\$0	\$0	\$0	\$0	\$0	\$0	Complete
\$0	\$0	\$0	\$0	\$0	\$0	Complete/Included in Task 2
64	\$3,492	\$169,428	\$0	\$2,149,542	\$117,336	

9.0 POST REMOVAL SITE CONTROL

For a period of one (1) year after the performance of the activities outlined in this Work Plan, or as otherwise directed by the OSC, post removal site control measures will be implemented. These measures will include maintaining the integrity of the security fence installation surrounding the CCCI site and denying access to the site by securely locking the entrance gates. Access keys have been provided to the OSC and designated representatives of the PRP's.

On a quarterly basis, a representative of the PRP's will inspect the site to determine if the site security fence has been breeched or has deteriorated to the point of requiring repair and, to observe if any unauthorized circumstances have occurred which may have a significant adverse environmental impact on the CCCI site. The inspections commenced the quarter starting December, 2001 and will continue through the three month period ending November 30, 2002.

Any noteworthy observations will be reported in writing to the OSC or his designated representative within seven (7) days.

10.0 **CERTIFICATION**

Under penalty of law, I certify that, to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, the information submitted is true, accurate, and complete.

Agent for the 6500 Industrial

Highway PRP Group

Date

Subscribed and sworn to me before this <u>38</u>th

MY COMMISSION EXPIRES. 10/28/03



CONSERVATION CHEMICAL COMPANY OF ILLINOIS GARY, INDIANA

WORK PLAN

Prepared in Response to Administrative Order by Consent Pursuant to Section 106 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. § 9606(a)

PREPARED BY:

Krikau, Pyles, Rysiewicz and Associates, Inc.

414 Plaza Drive, Suite 106 Westmont, Illinois 60559

1056 Killarney Drive Dyer, Indiana 46311

TABLE OF CONTENTS

SEC1	rion/i	DESCRIPTION	PAGE
1.0	INTI	RODUCTION	01
	1.1	Site Description	
	1.2	Site History	
	1.3	Environmental Concerns	
	1.4	Work Plan Overview	
2.0	SCO	PPE OF WORK	10
	2.1	Site Control	10
		2.1.1 Fence	10
		2.1.2 Site Security and Access Procedures	11
		2.1.3 Site Field Office	11
	2.2	Site Investigation	13
		2.2.1 Tanks	13
		2.2.2 Pits	14
		2.2.3 Drums	14
		2.2.4 Labpacks	15
		2.2.5 Lagoons	15
		2.2.6 Asbestos Containing Material (ACM)	17
		2.2.7 Extent of Contamination	
		2.2.8 Groundwater Wells	19
3.0		MPLING AND ANALYSIS PLAN	
	3.1	Sampling Objectives	
	3.2	Sampling to be Performed	
	3.3	Sampling Procedures	
		3.3.1 Tanks	
		3.3.2 Pits/Basins	
		3.3.3 Drums	
•		3.3.4 Lagoons	25
		3.3.5 Potential ACM	25
		3.3.6 Subsurface Soils	26
	3.4	Sample Designation	26
	3.5	Sample Container and Preservation Requirements	27
	3.6	Chain-of-Custody Record	27
	3.7	Sample Notification	27
4.0		ALITY ASSURANCE PLAN (QAP)	
	4.1	Project Objectives	
	4.2	Quality Assurance Objectives	
		4.2.1 Level of QC Effort	
		4.2.2 Data Completeness, Representatives, and Comparability	
		4.2.3 Quality Control Requirements	
	4.3	Sample Custody Procedures	31

	4.4	Calibration Procedures and Frequency	32
	4.5	Analytical Procedures	32
	4.6	Data Validation	
5.0	HEA	ALTH AND SAFETY	34
	5.1	Objective Statement	
	5.2	Responsibilities	
		5.2.1 Project Safety Coordinator	
		5.2.2 Contractors	
		5.2.3 Site Workers	
	5.3	Health and Safety Plan Objectives	
	5.4	Project Hazard Identification & Protection	
		5.4.1 Chemical Hazards	
		5.4.1.1 Toxic Effects of Chemicals	
		5.4.1.2 Physical Hazards Associated with Chemicals	
		5.4.2 Physical Hazards	
		5.4.2.1 Fall Hazards and Fall Protection	
		5.4.2.2 Electrical Hazards	
		5.4.2.3 Excavation Related Hazards	
		5.4.2.4 Struck-By Hazards	
		5.4.2.5 Confined Space Hazards	
		5.4.2.6 Cranes, Heavy Equipment, and Rigging Related Hazards	
		5.4.2.7 Demolition Related Hazards	
		5.4.2.8 Other Environmental Health Related Hazards	
	5.5		
	3.3	Project Safety Procedures	
		5.5.1 General Safety Rules	
		5.5.3 Task Specific Safety Procedures	
		5.5.3.1 Securing the Site	
		5.5.3.2 Cleaning the Site	
		5.5.3.3 Inventory Drums and Tanks	
		5.5.3.4 Sampling Drums, Tanks, and Lagoons	
		5.5.3.5 Pump Out and Clean Scrap Tanks	
		5.5.3.6 Handling Drums	
		5.5.3.7 Excavate Contaminated Soil	
		5.5.4 Air Monitoring	57
		5.5.4.1 Daily Air Monitoring	
		5.5.4.2 Perimeter Air Monitoring	
		5.5.4.3 Worker Exposure Monitoring	
		5.5.4.4 Documentation	
	5.6	Decontamination Procedures	
		5.6.1 Equipment Decontamination	
		5.6.2 Personnel Decontamination	
	5.7	Personal Protective Equipment	
		5.7.1 Respiratory Protection	61
		5.7.1.1 General	
		5.7.1.2 Level C Respiratory Protection	
		5.7.1.3 Level B Respiratory Protection	

		5.7.2 Chemical Protective Clothing
		5.7.2.1 Chemical Protective Clothing
		5.7.2.1.1 Level D Protective Clothing
		5.7.2.1.2 Level B & C Protective Clothing
	5.8	Emergency Procedures & Accident Reporting
		5.8.1 Injuries
		5.8.1.1 Life Threatening Injuries
		5.8.1.2 Chemical Injuries
		5.8.1.3 Non-Life Threatening Injuries
		5.8.2 Reporting Accidents and Injuries
		5.8.3 Fires
		5.8.4 Evacuation Plan
	5.9	Auditing the Effectiveness of the Health and Safety Plan
6.0	REM	EDIATION ACTIVITIES73
	6.1	Decontamination Pad
	6.2	Buried Drums and Tanks
	6.3	Non-Hazardous Materials74
	6.4	Hazardous Materials
	6.5	Subsurface Soils
	6.6	Lagoon Sludge
	6.7	ACM Removal
	6.8	Scrap Metal
	6.9	Containment Barrier
	6.10	Monitoring Wells
	6.11	Backfilling
	6.12	Project Demobilization
		6.12.1 Decontamination Pad
	•	6.12.2 Other Activities
7.0	PRO.	JECT REPORTS
	7.1	Monthly Reports
	7.2	Final Report
	7.3	Submission of Reports
	7.4	Record, Retention, Documentation, Availability of Information
8.0	PRO.	TECT SCHEDULE81
9.0	POS	T REMOVAL SITE CONTROL82

1.0 INTRODUCTION

This Work Plan describes the removal actions to be performed at the property located at 6500 Industrial Highway, Lake County, Gary, Indiana, and known as the Conservation Chemical Company of Illinois, Inc. (CCCI) site. This Work Plan was prepared in response to Administrative Order, Docket No. VW-'98-C-497, (the Order) which was entered into by the United States Environmental Protection Agency (EPA) and the Potentially Responsible Parties (PRP's), known as the 6500 Industrial Highway Group, for the CCCI site. The effective date of this Order is February 4, 1999.

1.1 Site Description

CCCI site is a 4.1-acre, triangular-shaped piece of land in Gary, Indiana. The site is situated north of and adjacent to the Gary Municipal Airport's main runway, and is bounded by the Western Scrap property to the north, the Elgin, Joliet and Eastern (EJ&E) Railroad tracks to the south, and a wetlands to the west. See Figure 1-1.

1.2 Site History

Prior to 1967, the subject property was owned by the Berry Oil Company which operated an oil refinery at the site. In 1967, Norman Hjersted, President of CCCI, acquired the property described above from the Berry Oil Company. From 1967 through 1985, CCCI conducted operations at the site, including storing and treating spent acids, oils, and solvents, operating as a producer of ferric chloride, and operating as a hazardous waste terminal and treatment facility for cyanide, organic solvents, plating waste and waste oils. CCCI ceased operations in 1985.

In February 1985, EPA's Technical Assistance Team (TAT) conducted a Site Assessment and identified several imminent threats to human health and the environment. They found thirteen (13) tanks of cyanide waste with concentrations up to 19,000 parts per million (ppm); free cyanide, totaling at least 184,531 gallons; twelve (12) tanks of hydrochloric and sulfuric acid, totaling at least 413,500 gallons; one (1) tank of at least 15 cubic yards of acid sludge; many severely corroded and leaking tanks and drums of acids, caustics, flammables, polychlorinated biphenyls (PCB's) and cyanide-contaminated materials; one (1) tank containing silicon tetrachloride; two (2) tanks containing an estimated 495,580 gallons of PCB-contaminated materials; and contaminated soils.

As a result of the release or threatened release of hazardous substances into the environment, EPA had undertaken response actions at the site under Section 104 of CERCLA, 42 U.S.C. § 9604. From October 1985 through September 1990, EPA conducted limited, but substantial removal activities at the site, including construction of a fence to secure the site; excavation, sampling and off-site disposal of buried drums containing hazardous substances; consolidation of hazardous waste from severely deteriorating and leaking drums and tanks and placement into more structurally sound tanks on-site; and off-site disposal of solid and liquid hazardous waste from certain tanks and drums.

In connection with the removal activities described above, EPA disposed of 187,948 gallons of PCB-contaminated oil; 214.78 tons of PCB-contaminated soil; 1,941 gallons of liquid hazardous waste; 60 tons of hazardous waste solids; 15,300 gallons of flammable waste liquids; 112 gallons of flammable waste solid; 1,760 gallons of waste chromic acid; 2,960 gallons of non-hazardous solid; 74 cubic yards of contaminated debris; and 51,600 pounds of silicon tetrachloride.

On September 27, 1985, EPA issued a CERCLA Section 106(a) Unilateral Administrative Order (UAO) to the owner-operator of CCCI and eighteen (18) generator-PRP's that were associated with the site. A supplemental UAO was issued by EPA to the same PRP's on November 22, 1985. Pursuant to the UAO's, a group of the generator-PRP's conducted limited, but significant removal activities at the site, including constructing a fence around a portion of the site for security purposes, removal and off-site disposal of acids from four (4) tanks; removal and off-site disposal of cyanide from thirteen (13) tanks; and dismantlement of a tower used to store cyanide and off-site disposal of the tower's cyanide-contaminated building materials.

EPA's TAT conducted a Site Assessment in 1994 to document the remaining threats at the CCCI site and found several imminent and substantial threats to the environment. The TAT documented twelve (12) non-empty deteriorating tanks containing acids and solvents; a number of corroded empty tanks with acid and caustic residue; a number of drums containing acids and caustic liquids; a number of empty drums with acid and caustic residue; soil contaminated with hazardous substances;

lagoons/sludge pits containing hazardous substances; 5,000 cubic yards of PCB-contaminated soil; five (5) uncontrolled packs containing laboratory chemicals; twenty (20) cubic yards of asbestos containing materials; contaminated waste oils; and contaminated groundwater. Geoprobe testing by the TAT confirmed the presence of a floating layer of contaminated material in the shallow aquifer located approximately 10 feet under the surface. Although this shallow aquifer itself is not used as a source of drinking water, it flows to the unnamed ditch located on the Gary Airport property, and, eventually, to the Calumet River. Further, the TAT found that human and animal populations had access to the site and hazardous substances located on-site because there were sections of fencing missing around the site.

Analytical testing of waste samples taken during that site investigation revealed the presence of hazardous substances and hazardous wastes on-site including, but not limited to, acetone, asbestos, benzene, cyanide, 1,2-dichlorobenzene, 1,1-dichloroethane, dichloromethane, isophorone, lead, 2-methylnaphthalene, naphthalene, polyaromatic hydrocarbon (PAH) compounds, and sludge material demonstrating the characteristics of toxicity from chromium, tetrachloroethene, 1,1,1-trichloroethane, trichloroethene, and toluene.

On September 28, 1994, EPA issued a General Notice of Potential Liability for the CCCI site to over 200 PRP's, including the owner/operator of the site and a number of generators. EPA's review of documents such as bills of lading and receipts, demonstrating incoming disposal transactions between the CCCI site in Gary, Indiana and the named generators, provided the basis for linking the generators to the site.

On August 30, 1996, EPA entered into a final de minimis settlement with 153 de minimis PRP's at the CCCI site.

In mid-January 1997, EPA issued a General Notice of Potential Liability to certain identified PRP's.

Subsequently, an Administrative Order was entered voluntarily by EPA and the CCCI PRP's to perform the additional removal activities described in this Work Plan. This Order became effective on February 4, 1999.

1.3 Environmental Concerns

The conditions present at the site constitute a threat to human health, welfare, or the environment based upon the factors set forth in Section 300.415 (b) (2) of the National Oil and Hazardous Substances Pollution Contingency Plan, as amended ("NCP"), 40 C.F.R. § 300.415 (b) (2). These factors include, but are not limited to, the following:

- a. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants; this factor is present at the site due to the existence of deteriorating tanks containing acids and cyanide; loose friable asbestos; and uncontrolled packs containing laboratory chemicals.
- b. Hazardous substances, pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release; this factor is present at the site due to the on-site existence of at least 175 drums and twelve (12) tanks containing acid and caustic liquids, and drums containing cyanide.
- c. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate.
- d. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released; this factor is present at the site due to the existence of severe cold-weather conditions, (including snow, icing, freeze-thaw phenomena and extreme cold temperatures) in the fall and winter seasons. These conditions could adversely affect the tanks, drums, surface impoundments, and contaminated soils, all of which are exposed to the elements.
- e. Threat of fire or explosion; this factor is present at the site due to the existence of a tank containing acetone with a flash point of 65° F that has a propensity for fire and explosion, and which has the ability to react violently with oxidizing materials.
- f. Other situations or factors that may pose threats to public health or welfare or the environment; this factor is present at the site due to the existence of vandalism problems, as evidenced by the missing sections of fencing around the site that could facilitate easy access to the site (and hazardous substances) by humans and animal populations. In addition, three (3) vertical tanks full of acid and caustic liquids have easily accessible valves which could be opened and, subsequently, allow the release of hazardous substances into the environment. These acid liquids, if released, could react with cyanide-contaminated soils and drums

containing cyanide, causing the creation and release of hydrogen cyanide, an extremely poisonous substance and chemical asphyxiant.

1.4 Work Plan Overview

In general, the following removal actions will be performed in response to the Order:

- a. Immediately control access to the site by repairing and/or constructing fences, and provide appropriate site security during implementation of the Work Plan;
- b. Conduct an inventory of the drums found on-site, and over pack or cover leaking drums and containers;
- c. Perform sampling and analyses of all drums, tanks, soil, pits, lagoons, asbestos, drums of laboratory chemicals, cooling towers, and any other identified areas, as per EPA's On-Scene Coordinator (OSC). This shall include the collection of samples from each container and compositing of samples into appropriate waste streams, including, but not limited to chromium-contaminated soils, flammable and combustible liquid waste, cyanide liquid and solid waste, acid liquid and solid waste, corrosive liquid and solid waste, and any other identified waste stream for analysis of disposal parameters. Appropriate disposal samples shall also be sent to waste facilities that are in compliance with the CERCLA off-site rule;
- d. Clean, cut and scrap all metal tanks, cooling towers, pipe and any other clean iron found on-site;
- e. Perform hazard categorization (hazcatting) analyses to assess the viability of bulkloading and disposal of the liquid and solid waste. Segregate drums and containers into compatible waste streams based on hazcatting analyses and dispose of them in accordance with applicable regulations;
- f. Conduct an extent of contamination study in the eastern one-third of the site that lies roughly between the EJ&E Railroad tracks and the unnamed railroad tracks that transect the CCCI site. The extent of contamination study will also include hot spots in and around the tank and drum storage areas, but will exclude the area of the PCB-contaminated waste pile and adjacent area. This study is to characterize the surface and subsurface soil contamination. Surface and subsurface samples shall be analyzed for PCB's, total cyanide, TCLP metal, volatile and semi-volatile parameters, and other RCRA-characteristic analytes;
- g. Conduct a geophysical survey in the eastern one-third of the site that lies roughly between the EJ&E Railroad tracks and the unnamed railroad tracks that transect

the CCCI site. The geophysical survey will also include hot spots in and around the tank and drum storage areas, but will exclude the PCB-contaminated waste pile and adjacent area. This survey is to identify areas where suspected buried drums are located. Excavate, treat, and dispose of contaminated soils and any buried drums at appropriate disposal facilities;

- h. Perform a Treatability Study on the three (3) waste lagoons to assess the viability of on-site stabilization as a viable response action. If on-site stabilization proves viable, the lagoon areas located on the site property may be stabilized in place, and the off-site lagoon areas may be moved onto the property and stabilized, if necessary. The stabilized wastes will then be capped with a minimum of 2 feet of compacted clay. To the extent that on-site stabilization is not viable, remove and dispose of the materials in the contaminated waste lagoons at a RCRA or TSCA-approved facility which is in compliance with the CERCLA off-site rule;
- i. Inventory all existing CCCI-related groundwater monitoring wells at the site. Abandon existing groundwater monitoring wells in accordance with Indiana Department of Environmental Management's (IDEM's) regulations;
- j. Assess, design, implement, and install a hanging containment barrier along the southeast border of the site to reduce the migration potential of the floating oil layer in the shallow groundwater aquifer that is under at the CCCI site;
- k. Collect periodic air samples, as appropriate, during the implementation of the Work Plan, for personnel and general site perimeter air monitoring to assess if dust, volatile organics, PCB's or other contaminants of concern are below acceptable OSHA standards;
- Conduct an investigation, including sampling and analysis, to determine which structures on-site contain asbestos. Based on the investigation, all friable asbestos will be abated, packaged, and disposed of in accordance with applicable regulations, prior to the demolition of all structures containing friable asbestos;
- m. Based on results from the initial sampling and extent of contamination study, treat, remove, and properly dispose of all hazardous substances or hazardous wastes, excluding the PCB-contaminated waste pile and adjacent area, at a RCRA or TSCA-approved facility which is in compliance with the CERCLA off-site rule. At a minimum, remove and dispose of, or treat acid liquids and solids, caustic liquids and solids, cyanide liquids and solids, solvents and flammable liquids, and chromium-contaminated soils;

- n. With regard to any "other PCB-contaminated materials" that are found during the "aboveground" cleanup, including response activities regarding any tanks, vats, pits, and aboveground drums and aboveground structures, the PRP's shall remove and dispose of any PCB-contaminated waste found in any tank, vat, pit, and aboveground drum and structure in a manner that is in compliance with all applicable laws;
- o. With regard to any discrete pockets of "other PCB-contaminated materials" that are above the 50 ppm TSCA action level, and that must be disposed of at a TSCA-approved disposal facility, and that are found in the eastern one-third of the site, as described in subparagraph f. above, including in "hot spot" areas around the tanks, vats, pits, and aboveground drums, and around the lagoons, the PRP's will remove up to 500 cubic yards of such PCB- contaminated wastes. However, with regard to PCB-contaminated wastes, as described above, that are estimated in aggregate to exceed 500 cubic yards or are estimated to exceed 500 cubic yards in a single location, prior to or after the PRP's removal of such PCB-contaminated soil up to 500 cubic yards, the PRP's reserve the right to "reopen" the issues of the cleanup of such PCB-contaminated wastes as set forth in subparagraph p.;
- p. With regard to all "other PCB-contaminated materials" found on-site that are not required to be removed by subparagraphs n. and o. above and that are above the 50 ppm TSCA action level, and must be disposed of at a TSCA-approved disposal facility, the PRP's reserve the right to "reopen" the issue of the cleanup of such PCB-contaminated wastes not required to be removed under subparagraphs n. and o. and, in the event that the PRP's are entitled and choose to reopen the Order with respect to such "other PCB-contaminated material", the PRP's will have no obligation under the terms of the Order and shall reserve all defenses to liability regarding such "other PCB-contaminated materials" as though the PRP's had not entered into the Order;
- q. Decontaminate steel tanks, lines, empty drums, pits, and containers, and collect and treat or dispose of wastewater generated. Remove decontaminated steel and debris to an appropriate recycling facility;
- r. Backfill all excavated areas with clean fill and level to pre-excavation grades;
- s. Demolish all aboveground structures and level the entire site to grade. All buildings, wood cribbing, abandoned railroad spurs and elevated piping systems will be dismantled and disposed of appropriately;

- t. Prepare and implement a verification sampling plan to assess whether appropriate cleanup levels, as specified in the approved Work Plan, have been met for all identified contaminants for all media of concern. The verification sampling shall include, at a minimum, sampling of soils, excluding the PCB-contaminated waste pile and adjacent area, pits, fixated lagoon sludge, surface water, and any decontaminated buildings or debris. If verification sampling demonstrates that cleanup levels for these contaminants have not been met, conduct additional removal activities as per the direction of the OSC;
- u. PCB action levels for the cleanup at the CCCI site shall be 50 ppm PCB.

2.0 SCOPE OF WORK

This section will describe in detail the activities that will be performed prior to and including the investigation phase of the Work Plan.

2.1 Site Control

Access to the site will be controlled by re-establishing and enhancing site security. This will be accomplished by repairing and/or constructing a perimeter fence around the site, providing security guard service to monitor the site on a 24-hour basis, and establishing procedures for authorized access to the site.

2.1.1 Fence

The existing sections of fence will be assessed for its integrity, its ability to prevent unauthorized access to the site by persons or ground animals and for its location in relationship to property boundaries. If required, portions of the existing fence not currently on property lines will be relocated so that the fence will coincide, as close as practicable, with actual property boundaries. The property lines will be verified by the performance of a property survey and will be identified by stakes.

Sections of the existing fence which are in disrepair will either be replaced or refurbished to match the quality of acceptable fence sections. In areas where no fence exists, new sections of fence will be installed. It is estimated that approximately 60 feet of existing fence will require repair and approximately 250 feet of new fence will need to be installed.

A new site entrance will be established from Industrial Highway, across Western Scrap property, at the northeast property line of the site. This route will be improved, graded, and routinely maintained to allow vehicular access and will be demarcated by utilizing either fence posts, snow fence, or other visual means.

This gated entrance will serve as the main entrance to the site and will be the location of the site field office.

The second or auxiliary gate will be the former entrance located at the northwest property line across property belonging to SES, Inc. and from Route 312. This gate will be utilized as an emergency exit during on-site activities but will be locked during off-hours.

2.1.2 Site Security and Access Procedures

Site security will be enhanced by employing a reputable guard service during the implementation of this Work Plan to monitor access to the site on a 24-hour basis. The firm providing this service will be stationed in the site field office and will have the authority to deny access to any persons not authorized by the OSC or the representatives of the PRP's.

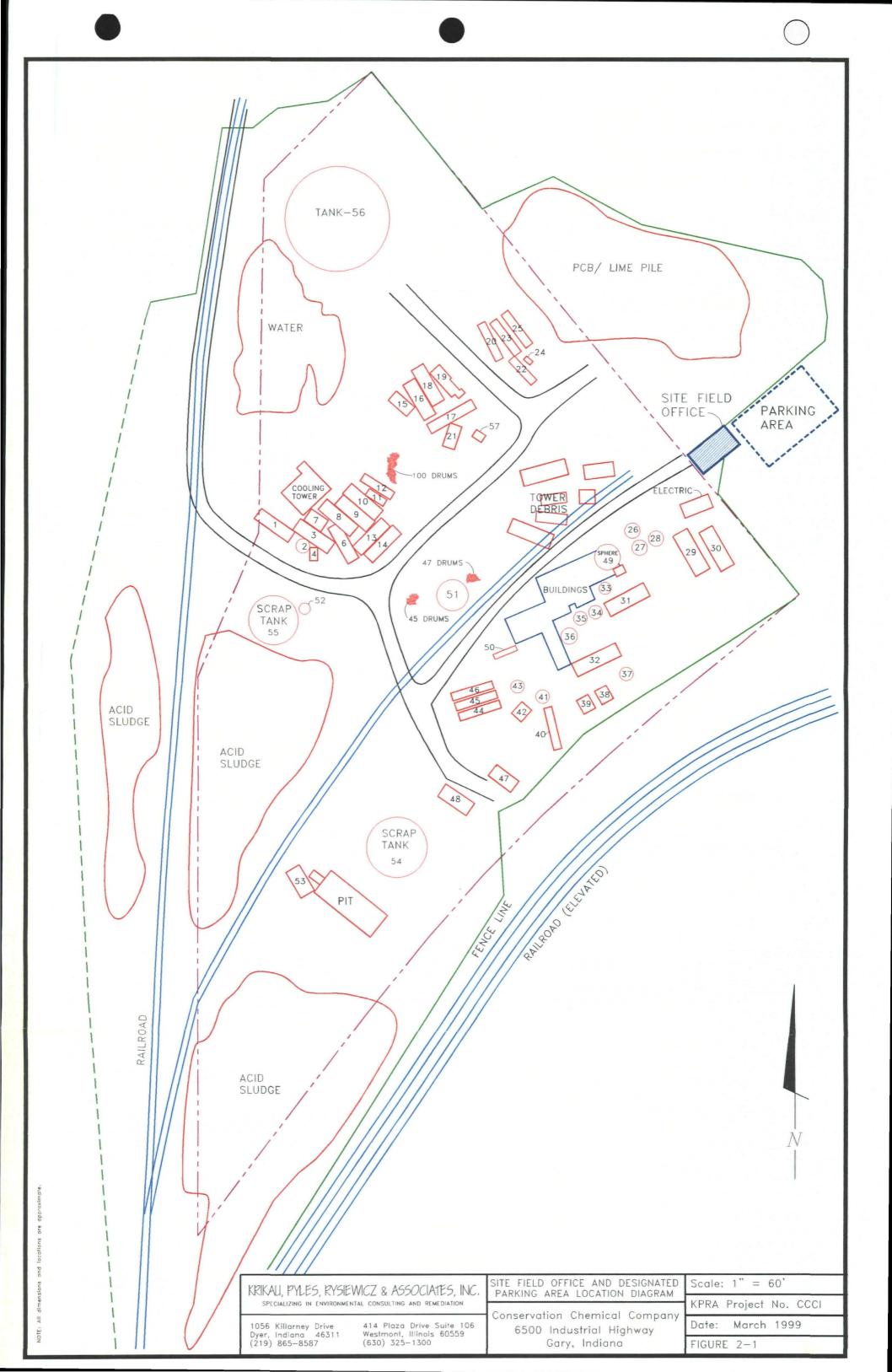
The security firm will also have the responsibility of assuring that all authorized visitors sign the logbook which will be placed at the site entrance. This logbook will require the name of the visitor, the visitor's signature, affiliation, arrival and departure times, and the purpose of the visit. Anyone that will be performing work on the site will be required to read the site Health and Safety Plan (See Section 5.0) and certify that he or she understands its content and will abide by its requirements.

Anyone refusing to sign the logbook or the Health and Safety certification will be denied access to the site.

A list of contacts with jurisdiction over the site including the fire department, police department, EPA's OSC and emergency response groups, and other key individuals will be provided to the security firm in the case of an emergency and clearly posted within the site field office.

2.1.3 Site Field Office

An office trailer will be located near the entrance to the site. Figure 2-1 depicts the location of the office. This office trailer will be the location of the site security, safety, and work office. The visitor's log, a copy of the Health and Safety Plan, and necessary emergency and first aid equipment will be kept in the office.



Electric and phone service will be established to the field office. Potable water service at the site will be provided in the form of bottled water by a commercial water supplier. Suitable sanitary facilities will be provided and routinely serviced by a qualified portable lavatory service contractor.

A designated parking area will be established outside the entrance gate. Signs will be posted to visually mark the site entrance. All personnel entering the site will be required to park their vehicles in this designated area. No personal vehicles will be allowed to enter the site without the permission of the OSC or a designated representative of the PRP's. Figure 2-1 also depicts the location of the designated parking area.

2.2 Site Investigation

Present at the site are various sized aboveground storage tanks, pits, a multitude of drums, labpacks, three (3) lagoons, and potential asbestos containing materials. Each one of these items will require further inspection, and in most cases further evaluation, to determine the presence of hazardous materials. The focused investigative activities to be performed to make this determination are described in the following sections of this Work Plan. Prior to performing any of these on-site investigative activities, however, all areas that contain potential physical hazards will be clearly identified as such through the use of caution signs, tape, barricades or other warning barriers.

2.2.1 Tanks

All aboveground storage tanks on-site will be physically inspected to determine their integrity and contents. Some of these tanks have been previously cut and cleaned but have accumulated rainwater, while others are believed to still contain potentially hazardous material. A representative sample of the contents in each previously cleaned aboveground storage tank will be obtained and analyzed for pH and total cyanide in the field using a Hach DR/4000 U spectrophotometer or equivalent. For tanks with unknown contents, a representative sample from each will be obtained for hazcat analyses (See Section 3.3.3). If a material is determined to be non-hazardous by the hazcat procedures then a second representative sample will be analyzed for pH, total

cyanide, TCLP metals, volatile organic compounds (VOC's), semi-volatile organic compounds (SVOC's), and PCB's to verify the non-hazardous classification. Once all the tanks have been sampled, an inventory will be developed which identifies each tank, describes the contents (if any) in each tank, and reports the results of the analyses performed. This information will be utilized to determine the final disposition of the contents from each tank.

2.2.2 Pits

Several subgrade concrete lined pits or basins containing liquids are present at the site. A representative sample from each pit will be obtained for hazcat analyses. If a material is determined to be non-hazardous by the hazcat procedures then a second representative sample will be analyzed for pH, total cyanide, TCLP metals, VOC's, SVOC's, and PCB's to verify the non-hazardous classification. Once all the pits/basins have been sampled, an inventory will be developed which identifies the location of each, describes the contents in each, and reports the results of the analyses performed. This information will be utilized to determine the final disposition of the contents from each pit/basin.

2.2.3 Drums

A large number of 55 gallon drums are present at the site. The majority of these drums are staged in a designated area, however, many are visibly scattered throughout the property.

There is also concern that some drums may be buried on the property in the eastern one-third of the site. In this area, a ground penetration radar (GPR) study will be initially performed to identify any anomalies which may indicate the presence of a buried drum. This study will be paralleled with a magnetometer study to correlate and confirm the presence of any anomalies identified. If any drums are encountered, they will be handled as discussed in Section 6.0 of this Work Plan.

An inventory of all drums will be developed which identifies the location of each drum, labels each drum for tracking purposes, and describes the condition

of the drum. A representative sample from each drum will be obtained for hazcat analyses to assess the viability of bulk loading and disposal of the wastes. Based on the information obtained through the hazcatting procedure, the drums will be segregated into compatible waste streams for final disposition.

If required, the drums will be over packed or covered to minimize the potential for additional release.

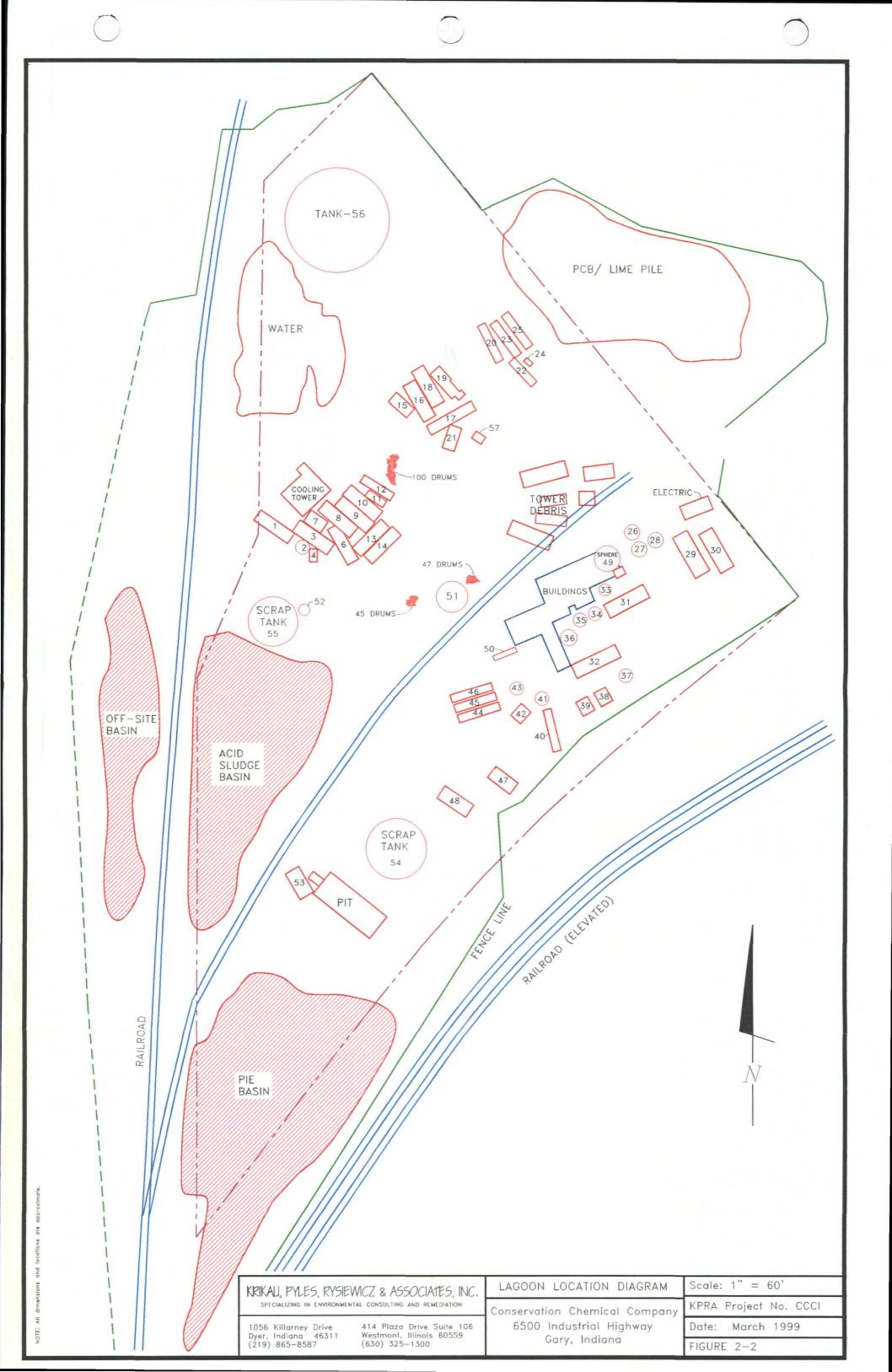
2.2.4 Labpacks

As a result of the previous investigations and removal activities performed, approximately five (5) laboratory overpacks remain on the site. The containerized wastes in these overpacks will be repackaged as a labpack item by a qualified subcontractor.

2.2.5 Lagoons

The three (3) lagoons subjected to this Order are identified in Figure 2-2 and are referred to as the "pie basin" lagoon, "acid sludge" lagoon, and "off-site" lagoon. Initially, an investigation to determine whether further stabilization of each lagoon is required will be undertaken. The investigation will include obtaining eight (8) representative samples of the sludge in the pie basin lagoon, six (6) representative samples from the acid sludge lagoon, and four (4) representative samples from the off-site lagoon and analyzing these samples for total and hexavalent chromium, TCLP metals and PCB's. The samples will be grab samples and will be spaced evenly across each lagoon. Further stabilization will be deemed necessary in a particular area of a lagoon if an individual sample exceeds the hazardous concentration level for a particular RCRA metal.

If additional stabilization is required, a treatability study will be performed to determine the additional neutralization requirements. The treatability study will consists of a test matrix to examine the stabilization of RCRA metals utilizing cement or other additives for stabilization. Each test will consist of combing representative portions of the lagoon samples, cement or like reagents, other



additives, and water in a mold to form a monolith. The monoliths will be allowed to cure and then be evaluated for structural integrity. Stabilization will be deemed complete when subsequent sampling demonstrates that all TCLP metals are below RCRA hazardous levels. If PCB's in a concentration greater than 50 ppm are detected in any one sample, that area will be considered PCB-contaminated. Management of the PCB-contaminated sludge is addressed in Section 6.5 of this Work Plan.

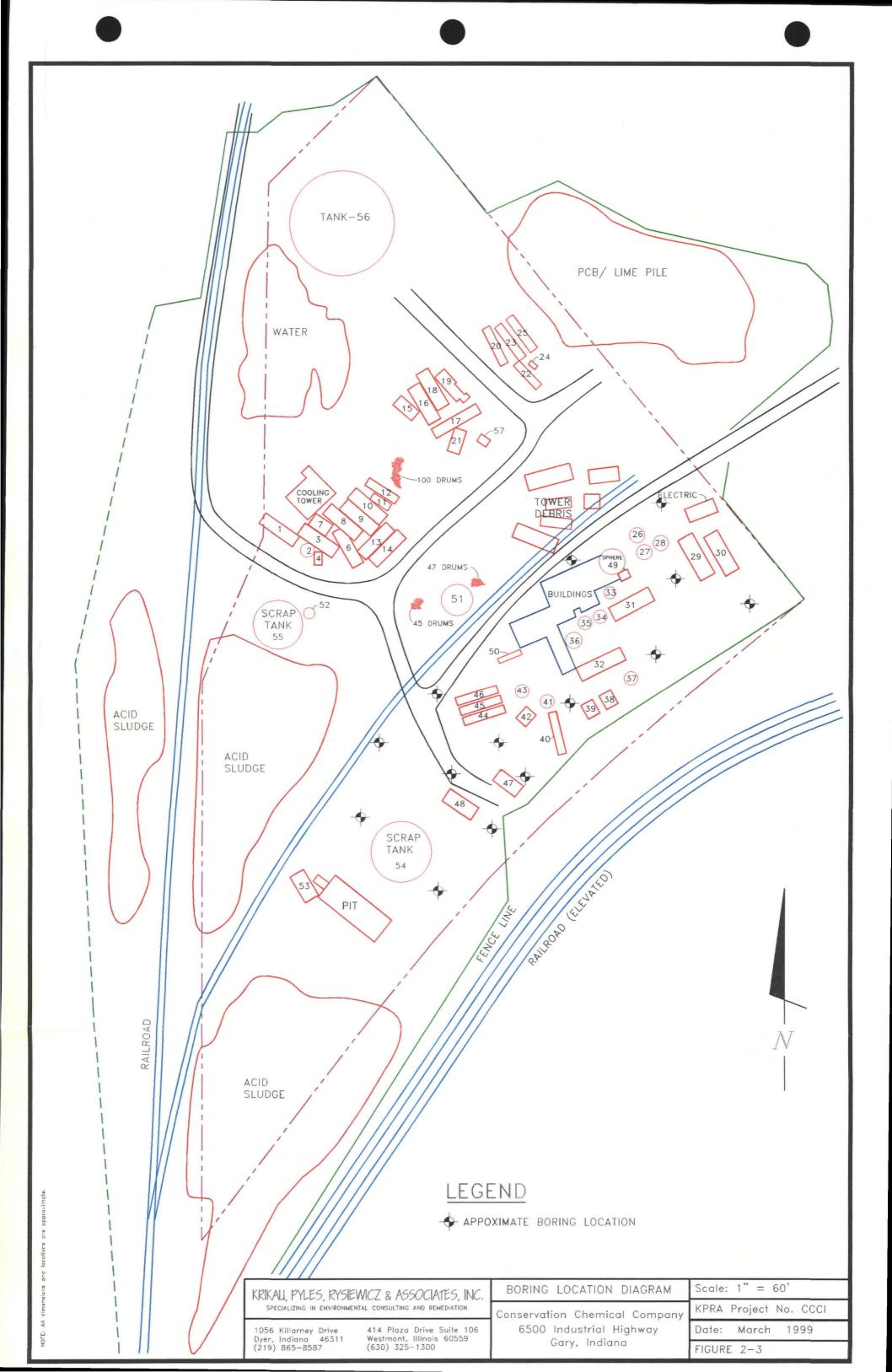
2.2.6 Asbestos Containing Material (ACM)

An ACM assessment will be performed at the site to identify all potential ACM which may include, but may not be limited to, piping/equipment insulation, floor and ceiling tiles, building materials, etc. The assessment will be performed by a properly trained and licensed individual who will obtain representative samples of each form of suspect material and have each sample analyzed for ACM content. Prior to performing the assessment in any structure, however, the integrity of the structure will be evaluated and any necessary steps to assure the safety of personnel will be implemented.

During the assessment, the location of the potential ACM will be identified, an estimate of the quantity of each material will be provided, and the condition of each will be reported. This information will be used in the performance of only necessary abatement activities and prior to the demolition of building structures.

2.2.7 Extent of Contamination

An investigation to determine the extent of residual contamination in the surface and subsurface soils will be performed on the eastern one-third of the site and in selected "hot spot" areas in the tank and drum storage areas. The investigation will consist of advancing a total of fourteen (14) soil borings utilizing either a mobile drilling rig or geoprobe (or a hand auger, if appropriate) to a depth of 7 feet or until the shallow groundwater aquifer is encountered, whichever is less. (See Figure 2-3 for the location of the borings.) The vertical profile of each boring will be field screened both visually and utilizing an HNU photoionization detector and based on these observations, a representative sample from each boring will be obtained for analysis. Each sample will be analyzed for PCB's, total cyanide, TCLP metals, TCLP VOC's and TCLP SVOC's.



2.2.8 Groundwater Wells

A review of pertinent records and a site investigation will be performed to identify and locate the groundwater monitoring wells that are present at the site. Once these wells have been identified and located, they will be closed in accordance with applicable State of Indiana regulations as described in Section 6.10.

3.0 SAMPLING AND ANALYSIS PLAN

The Sampling and Analysis Plan guides all analytical field work by defining the sampling and data-gathering methods to be used and defines the physical and chemical analyses which will be performed.

3.1 Sampling Objectives

The primary data uses at the CCCI site will be for site investigation, source characterization, hazcatting, health and safety, disposal profiling, and verification of removal effectiveness. Soil, sludge, and liquid samples will be collected to determine the levels of specified RCRA characteristic analytes.

The overall Data Quality Objective (DQO) is to collect quality data in sufficient quantity to achieve the requisite level of verification for remedial action activities. The selection of both the sampling and analytical approaches for the CCCI site, as described in the following sections, was made to achieve this DQO.

3.2 Sampling to be Performed

As indicated in this Work Plan, sampling of various containers and medias and analysis for a variety of analytical parameters will be undertaken to achieve compliance with the requirements of the Order. The specific sampling and analyses to be performed are listed in Table 3-1.

3.3 Sampling Procedures

Sampling of the various containers and medias will be performed in accordance with EPA-approved methodologies utilizing clean sample containers provided by the selected laboratory and required sampling equipment, including but not limited to, bailers, syringes, split spoons, augers, buckets, etc. To reduce the potential for cross contamination, each sample will be obtained with either disposable sampling equipment or equipment that has been properly decontaminated beforehand. Wastes generated on-site during sampling and sampling equipment decontamination will be properly containerized, sampled for characterization determination, and managed in

TABLE 3-1

SAMPLING TO BE PERFORMED

	Item Area	Analyses	Method
1.	Previously cleaned storage tanks (empty)		Visual observation
2.	Previously cleaned storage tanks (with residuals)	pH Total Cyanide Disposal parameters	Hach spectrophotometer Hach spectrophotometer Disposal site specific
3.	Storage tanks with unknown contents	Hazardous Categorization pH TCLP Metals Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Total Cyanide PCB's VOC's SVOC's Disposal parameters	Hazcatting (See Appendix A for Referenced Methods) EPA Method No. 9040 EPA Method No. 1311 EPA Method No. 6010/7060 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 7470/7471 EPA Method No. 6010/7740 EPA Method No. 7760 EPA Method No. 7760 EPA Method No. 9010 EPA Method No. 8082 EPA Method No. 8260 EPA Method No. 8270 Disposal site specific

TABLE 3-1 (CONT.)

4. Pits/basins with unknown contents	Hazardous Categorization pH TCLP Metals Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Total Chromium PCB's VOC's SVOC's Disposal parameters	Hazcatting (See Appendix A for Referenced Methods) EPA Method No. 9040 EPA Method No. 1311 EPA Method No. 6010/7060 EPA Method No. 6010 EPA Method No. 7470/7471 EPA Method No. 7470/7471 EPA Method No. 7760 EPA Method No. 9010 EPA Method No. 8082 EPA Method No. 8260 EPA Method No. 8270 Disposal site specific
5. Drums with unknown contents	Hazardous Categorization Disposal parameters	Hazcatting (See Appendix A for Referenced Methods) Disposal site specific
6. Sludge lagoons	TCLP Metals Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Total Chromium Hexavalent Chromium PCB's	EPA Method No. 1311 EPA Method No. 6010/7060 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 7470/7471 EPA Method No. 6010/7740 EPA Method No. 7760 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 7196 EPA Method No. 8082

TABLE 3-1 (CONT.)

7. Potential ACM	Asbestos content	Polarized Light Microscopy (PLM)
8. Subsurface soils	TCLP Metals Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	EPA Method No. 1311 EPA Method No. 6010/7060 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 6010 EPA Method No. 7470/7471 EPA Method No. 6010/7740 EPA Method No. 7760
9. Air monitoring	PCB's TCLP VOC's TCLP SVOC's Disposal parameters See Section 5.0	EPA Method No. 8082 EPA Method No. 1311/8260 EPA Method No. 1311/8270 Disposal site specific See Section 5.0

accordance with applicable regulations. All samplers will wear the required personal protective equipment (PPE) specified in Section 5.0 during each sampling episode. The OSC will be notified not less than three (3) business days in advance of any sample collection activity.

3.3.1 Tanks

A representative grab sample of the residual content from each previously cleaned tank (if not empty) will be obtained and analyzed for pH and total cyanide in the field utilizing a Hach DR/4000 U spectrometer or equivalent. If the sample is determined to be contaminated and requires off-site disposal, a representative grab sample will be obtained and analyzed by either the selected laboratory or by the potential disposal site for the appropriate disposal parameters.

For tanks with unknown contents, a representative grab sample from each tank will be obtained and analyzed by the selected laboratory for the applicable parameters specified in Item No. 3 of Table 3-1. Based on the analytical results for each sample, a composite sample from each similarly identified waste stream will be obtained and analyzed by either the selected laboratory or by the potential disposal site for the appropriate disposal parameters.

3.3.2 Pits/Basins

If the content of any pit or basin is unknown, a representative grab sample from each pit or basin will be obtained and analyzed for the applicable parameters specified in Item No. 4 of Table 3-1. If the content in any pit or basin is determined to be contaminated and requires off-site disposal, a representative grab sample will be obtained and analyzed by either the selected laboratory or by the potential disposal site for the appropriate disposal parameters.

3.3.3 Drums

A representative sample from each drum will be obtained and analyzed for compatibility (hazcatting). The hazcat testing will be performed on all samples

collected from the drummed wastes. Specifically, this testing will include analysis of each drum's content for flammability, flash point, water reactivity, corrosivity, oxidation potential, and pH, respectively. Appendix A provides a generalized hazcat procedure suitable for this project.

When all compatible materials have been grouped, a composite sample of each individual category of wastes will be analyzed by either the selected laboratory or by the potential disposal site for the appropriate disposal parameters.

3.3.4 Lagoons

As described in Section 2.2.5, representative grab samples will be obtained from each lagoon and will be initially analyzed for TCLP metals, TCLP VOC's, TCLP SVOC's, total and hexavalent chromium, and PCB's by the selected laboratory.

If it is determined that further stabilization is required in any area, a treatability study will be performed on that area to determine the required amount of neutralization material that will be necessary to fully stabilize the sludge. The results of the treatability analysis will provide a demonstration of the effectiveness of the reagent formulation to stabilize the sludge materials. Upon stabilizing the sludge, representative samples from each additionally treated area will also be obtained and analyzed for TCLP metals, TCLP VOC's, TCLP SVOC's, total and hexavalent chromium, and PCB's by the selected laboratory.

A representative sample of any sludge required to be removed and disposed of off-site will be obtained and analyzed by either the selected laboratory or by the potential disposal site for the appropriate disposal parameters.

3.3.5 Potential ACM

The representative grab samples collected of each potential material will be analyzed by a selected laboratory specializing in ACM analysis using the EPA recommended method, Polarized Light Microscopy (PLM).

3.3.6 Subsurface Soils

Soil samples obtained during the site characterization will be analyzed by the selected laboratory for the applicable parameters specified in Item No. 8 of Table 3-1. A composite sample of any soils requiring off-site disposal will be obtained and analyzed by either the selected laboratory or by the potential disposal site for the appropriate disposal parameters.

3.4 Sample Designation

A sample identification system has been developed for this project. Each sample will be designated to include the following sequential information:

- Name of site CCCI site (CCCI)
- Sample location Tank (T), Drum (D), Basin (B), Labpack (L), Lagoon Sludge (LS), Soil Boring (SB)*
- Location description Identification number assigned to each tank, drum, basin, labpack, soil boring or lagoon.
- Sample number Sequential number for multiple samples obtained from each specific source location.
- QA/QC modifiers Duplicate (D), Trip Blank (TB)
 - *For samples obtained from a soil boring, the depth at which the sample was obtained will also be provided.

For example, the initial sample of the residual liquid from Tank No. 1 (as numbered in the tank inventory) would be identified as: CCCI/T-1-1, a second sample from Drum No. 15 would be CCCI/D-15-2.

All field samples will be identified with sample identification labels that include the above sample number and the following additional information:

- Name of collector;
- Affiliation of collector;
- Date and time of collection; and
- Analysis request

3.5 Sample Container and Preservation Requirements

The required sample containers, preservation methods, maximum holding times, and any special filling instructions for each sample type are summarized in Table 3-2.

3.6 Chain-of-Custody Record

To provide the necessary documentation to track sample possession from the time of collection to the time of receipt by the analytical laboratory, a chain-of-custody record will be completed and will accompany each shipment of sample(s) to the laboratory.

3.7 Sample Notification

The OSC will be notified not less than three (3) business days in advance of any sample collection activity.

TAE . 3-2
SAMPLE CONTAINER AND PRESERVATION REQUIREMENTS

Media Parameters		Container	Preservation	Max. Holding Time	Special Filling Instructions		
Solid/Sludge	pН	(1) 4 oz. glass or plastic	4° C	None	None		
	Cyanide	(1) 4 oz. glass or plastic	4° C	14 days	None		
	Chromium	(1) 4 oz. glass or plastic	None	6 months	None		
	Total Hexavalent Chromium	(1) 4 oz. glass or plastic	4° C	None	None		
-	TCLP Metals	(1) 4 oz. glass or plastic	None	6 months/6 months* Hg-28 days/28 days*	None		
	VOC's	Purge and Trap System (1) 4 oz. glass	4° C	14 days	5 g. of soil per vial		
	TCLP VOC's	(1) 4 02. glass	4° C	14 days	No headspace		
	SVOC's TCLP SVOC's	(1) 4 oz. glass (1) 4 oz. glass	4° C 4° C	14 days/40 days* 14 days/40 days*	None None		
	PCB's	(1) 4 oz. glass	4° C	14 days/40 days*	None		
	Asbestos	Glass or Plastic	None	None	Handle with care to avoid damage.		
Liquid	pH	(1) 125 ml. glass or plastic	4° C	Immediate	None		
	Cyanide	(1) liter glass or plastic	NaOH/4° C	14 days	None		
	TCLP Metals	(1) liter glass or plastic	None	6 months/6 months* Hg-28 days/28 days*	None		
	VOC's	(3) 40 ml. vials	HCL/4° C	14 days	No headspace		
	SVOC's	(2) 32 oz. glass (amber)	4° C	7 days/40 days*	None		
	PCB's	(2) 32 oz. glass (amber)	4° C	7 days/40 days*	None		

^{*}x/y: x - number of days to extract; y - number of days to analyze

4.0 QUALITY ASSURANCE PLAN (QAP)

This QAP presents the policies, organization, objectives, and Quality Assurance (QA) and Quality Control (QC) activities designed to achieve the specific data and quality objectives associated with the CCCI site.

The selected laboratory will perform the applicable analyses identified in Table 3-1 on all liquid, sludge, and solid samples. In performing these analyses, the selected laboratory will follow all applicable procedures of EPA approved methodology and a quality assurance program.

4.1 Project Objectives

Data Quality Objectives (DQO) have been established to ensure that the data collected are sufficient and are of adequate quality for their intended use. The primary data uses for the CCCI site will be for source characterization, hazard classification (hazcatting), disposal profiling, and evaluation of remedial activities; however, health, safety, and engineering design of remedial alternatives may also be anticipated uses.

Based on these intended data uses and the desired level of certainty, a level of analytical support which is characterized by formalized QA/QC protocols and documentation has been selected to provide qualitative and quantitative analytical data. Field screening activities such as the determination of pH, ignitability, corrosivity, or volatile organic concentrations using the HNU photoionization meter, for example, will be utilized to provide initial assessment.

4.2 Quality Assurance Objectives

The overall quality assurance objective is to develop and implement procedures for sampling, laboratory analysis, field measurement and reporting that will provide the requisite data consistent with its intended use. This section defines the goals for levels of QC effort including the accuracy, precision, sensitivity, completeness, representativeness, and comparability of laboratory analyses.

4.2.1 Level of QC Effort

Quality Control samples, including replicate samples, and field and trip blanks, will be submitted to the analytical laboratory to assess the quality of the data resulting from non-disposal related field sampling investigations. Trip blanks will be prepared by the laboratory. Guidelines for field replicate samples for the CCCI site investigation and removal actions will be to include one (1) replicate sample for each group of at least five (5) but not greater than twenty (20) investigative samples for all matrices. Trip blanks will be provided only for each shipment of VOC samples to and from the CCCI site. QA/QC sampling will not be performed for waste categorization or classification, treatability testing, or disposal profiling.

The analytical laboratory that will be selected for sample analysis will use the applicable EPA approved test protocols for analysis. The level of QC effort provided by this laboratory will be equivalent to the level of QC effort specified by EPA methodology.

4.2.2 Data Completeness, Representativeness, and Comparability

Since the laboratory analyses will be performed consistent with EPA procedures, it is expected the requisite level of QC will be met. The completeness of an analysis will be documented by records maintained by the laboratory such as chromatograms, spectra, and QC data to allow the data user to assess the quality of the result.

The sampling and analysis program is designed to provide data representative of site conditions. During the development of this program, consideration was given to past disposal practices, existing analytical data from previous site investigations, and the physical parameters of the site to ensure the representativeness of the data which are generated.

Data comparability will be assured by the use of replicate and trip blank samples for field QC and by the specific laboratory QA/QC activities required by EPA methodology.

4.2.3 Quality Control Requirements

The sampling activities will include the following procedures for the purpose of quality control:

- Collection of field duplicate samples.
- Inclusion of trip blanks in sample shipments for the analysis of volatile organics in water and soil.

4.3 Sample Custody Procedures

Sample custody procedures will be consistent with applicable published EPA guidance documents.

A sample will be considered under the person's custody if it is:

- 1. In a person's physical possession,
- 2. In view of the person after he has taken possession,
- 3. Secured by that person so that no one can tamper with the sample, or
- 4. Secured by that person in an area that is restricted to authorized personnel.

The sample packaging and shipment procedures summarized below will assure that the samples will arrive at the laboratory with the chain-of-custody intact.

Field procedures are as follows:

- The field sampler will be personally responsible for the care and custody of the samples until they are transferred or properly dispatched. As few people as possible will handle the samples.
- All samples will be labeled with sample numbers and locations.

The selected laboratory will provide all sample containers necessary for field sampling and QC requirements. Each lot of sample containers will be checked for cleanliness by the laboratory and sealed to prevent contamination. Samples will be received at the laboratory by the sample custodian, who will examine each sample to ensure that no

damage occurred during shipment and that the chain-of-custody record is complete and accurate. The sample custodian will also ensure that each sample has been preserved in a manner required by the particular analysis and stored according to the correct procedure.

4.4 Calibration Procedures and Frequency

A maintenance and calibration program will be implemented to ensure that routine calibration and maintenance are performed on all field analytical equipment. The program will be administered by the designated project coordinator (a designated representative of the PRP's) who will perform routine preventative maintenance (e.g., cleaning or other procedures identified in the instrument manual) on a weekly basis and calibrate field instruments on a daily basis.

Field personnel will be familiar with the calibration, operation, and maintenance of all field instruments and will maintain their proficiency. Operating procedures outlined in the manual for each instrument will be followed. If field equipment should fail, either the malfunction will be repaired or replacement equipment will be provided as soon as is reasonably possible.

The selected laboratory will perform calibration and preventative maintenance procedures for laboratory equipment in accordance with current EPA guidelines.

4.5 Analytical Procedures

Liquid, sludge, and solid samples will be analyzed for selected analytical parameters as outlined within Table 3-1. The analyses will be conducted by the selected laboratory using methods specified in the current EPA methodology guidelines. If dilution of a sample is required such that certain constituents may be diluted below their respective method detection limits, the laboratory will be consulted to explore methods of detecting all constituents. All chosen methods will be in accordance with applicable EPA protocols.

4.6 Data Validation

The selected laboratory will perform in-house analytical data reduction and validation under the direction of the respective laboratory QA supervisor. The laboratory review will include checks for the attainment of QC criteria as outlined in applicable EPA procedures and methods. The validity of analytical data will also be assessed by comparing the analytical results of replicate and blank samples.

Additionally, the laboratories will critique their own analytical programs by using spiked additional recoveries, established detection limits, precision and accuracy control charts and by keeping accurate records of the calibration of instruments.

Corrective action, if determined to be required by audit results or detection of unacceptable data include, but is not limited to, the following:

- Accepting data with an acknowledged level of uncertainty.
- Eliminating outliers identified by the validation task.
- Reanalyzing samples if holding time criteria are not exceeded.
- Resampling and analyzing site areas in question.
- Evaluating and amending sampling and analytical procedures.

5.0 HEALTH AND SAFETY

5.1 Objective Statement

The health and safety of each Company's and/or Agency's workers, contractors, and visitors at the CCCI site are of the highest priority. It is the policy of the PRP's, the Project Safety Officer (PSO), and the OSC to provide a safe and healthful work place for each Company's and/or Agency's workers, contractors, and visitors through the establishment of safety rules, procedures, and programs that are strictly and uniformly enforced. Each Company's and/or Agency's workers, contractors, and visitors are ultimately responsible for compliance with all applicable federal, state, and local safety standards, codes and regulations will be complied with throughout the duration of the CCCI project.

5.2 Responsibilities

5.2.1 Project Safety Coordinator

The PSO, or designated backup PSO, is responsible for the daily supervision of all health, safety, decontamination, and monitoring activities associated with each phase of the CCCI project. The PSO is responsible for informing and training contractors and their employees in the specific hazards, work methods, emergency procedures, and personal protective equipment that will be required during their work.

As part of this responsibility, the PSO is responsible for enforcing the provisions of this Health and Safety Plan and site specific safety rules and procedures. The PSO is provided with the authority to stop work activities deemed to be unsafe or dangerous. The PSO will work closely with the OSC to assure that operations are performed in a safe and efficient manner.

5.2.2 Contractors

Contractors are responsible for complying with the requirements of this Health and Safety Plan and for following the specific instructions of the PSO. The contractor's on-site supervisor must ensure that his employees are following all

applicable rules and procedures identified in this plan and by the PSO. A contractor's refusal to comply with the requirements of this plan, or instructions provided by the PSO, may result in the termination of the contract and removal from the site.

5.2.3 Site Workers

All persons working at the CCCI project must comply with the requirements of this Health and Safety Plan and the instructions provided by the PSO. Failure to comply with this plan, or other rules, may result in disciplinary action or removal from the site. Site workers are responsible for:

- Only performing jobs for which they have had specific training
- Following prescribed safety rules and regulations
- Using required personal protective equipment
- Reporting all unsafe conditions/work practices that they are aware of
- Reporting all injuries to their supervisor, no matter how minor
- Cooperating during the investigation of any accidents that may occur

5.3 Health and Safety Plan Objectives

This Health and Safety Plan includes the requirements necessary to protect site workers and the general public from hazards that will be encountered during work performed at the CCCI site. The objective of this Health and Safety Plan is to provide the safety procedures that will be followed during all phases of work. Included are a description of hazards, both physical and chemical, emergency procedures, and safe operating procedures that will be followed during each phase of work. The health and safety procedures identified in this plan meet, or exceed, U.S. EPA's requirements and the requirements detailed in 29 CFR 1910.120 (OSHA) and other applicable health and safety regulations found in 29 CFR parts 1910 (General Industry) and 1926 (Construction).

5.4 Project Hazard Identification & Protection

There are many chemical and physical hazards present at the CCCI site. The site has a history of the handling, storage, and processing of a variety of hazardous materials including the following:

5.4.1 Chemical Hazards

Table 5-1 lists those chemicals that have been identified, or assumed to be present at the site. Chemical hazards include materials with acute or chronic toxicity characteristics resulting from exposure. Chemical hazards also include the ability of the material to damage skin or eyes through contact with the material itself, its vapors, mists, dusts, or fumes. Categories of chemical hazards present at the CCCI site are identified in the following list.

5.4.1.1 Toxic Effects of Chemicals:

Asbestos Containing Material (ACM):

It is assumed that the CCCI site contains ACM. This ACM may be found in pipe insulation, structural steel fire proofing, floor tile, transite panels, ceiling tiles, etc. Inhalation of asbestos fibers may result in a variety of diseases including asbestosis and lung cancer.

The requirements of 29 CFR 1910.1001 will be followed for all operations where workers may be exposed to asbestos. This includes contractor employees involved in the removal of the asbestos and other contractor employees involved in the demolition of structures that may contain asbestos.

Acids:

Waste acids have been identified at the CCCI site in tanks and drums and in neutralized waste in the three lagoons. Acids that have been identified, or are suspected of being present, include hydrochloric, sulfuric, and chromic.

Site workers whose work requires them to be exposed to acids will be required to wear personal protective equipment and respiratory protection. Levels of respiratory protection will be determined by the exact task being performed and the level of airborne acid gas

Table 5-1 - Hazards and Exposure Limits by Chemical

Chemical	Principal Route of Entry			PEL/TLV/REL *	IDLH	Flammable (FP<100° F)	Flash Pt	Corrosive	HMIS System (H-hlth F-flam R-react)				
	Inhalation	Dermal	Ingestion						Н	F	R	0	
acetone	x	х	х	250 ppm	2500 ppm	x	0° F		1	3	0		
arsenic	х	х	х	.01 mg/M3	5 mg/M3				3	0	0		
asbestos	X			.1 fiber/cc	n/a				2	0	0		
barium	х	X	х	.5 mg/M3	50 mg/M3				1	0			
benzene	х	х	х	1.0 ppm	500 ppm	х	12° F		2	3	0		
Cadmium	x		х	5 ug/M3	50 mg/M3				2	0	0		
Chromium compounds	х	х	x	.001 mg/M3 hexavalent CR .5 mg/M3 chromium II & III	15 mg/M3 250 mg/M3 chromium II 25 mg/M3 chromium III				3	0	1	ox	
				.05 mg/M3 chromic acid	15 mg/M3 chromic acid			x					
Cyanide	Х	х	x	5 mg/M3 - inhale 5 mg/M3 - skin	50 ppm as HCN	x As HCN gas	N/A		4	4	2		
1,2-dichlorobenzene	х	x	x	25 ppm	200 ppm		151° F		2	2	0		
1,1-dichloroethane	x	х	x	100 ppm	3000 ppm	x	1 7 ° F		2	3	2		
Dichloromethane	х	х	х	25 ppm	2300 ppm				2	1	0		
Hyrdrochloric acid	x	x	х	(C) 5 ppm	50 ppm			х	3	0			
Isophorone	x	x	x	(C) 5 ppm	200 ppm				2	2	0		
Lead	x		х	50 ug/M3	100 mg/M3				2	0	0		
Mercury	х	х	х	25 ug/M3 - inhale 25 ug/M3 - skin	10 mg/M3				2	0	0		
2-methylnapthalene	х	х	х	Not Published	Not Published								
Napthalene	x	х	х	10 ppm	250 ppm		136° F		2	2	0		
PCB's – various	x	Х	x	1 ug/M3 - inhale .5 mg/M3 - skin	5 mg/M3				2	1	0		
Selenium	х	x	х	.2 mg/M3	1 mg/M3				2	0	0		
Silver	x	Х	х	.01 mg/M3	10 mg/M3				2	0	0		
sulfuric acid	х	Х	х	1 mg/M3	15 mg/M3	X		3	0	2	W		
Tetrachloroethene	х	X	х	25 ppm	300 ppm				2	0			
Toluene	х	х	х	100 ppm - inhale 50 ppm - skin	500 ppm	х	40° F		2 3 0				
1,1,1-trichloroethane	x	х	х	350 ppm	700 ppm				2	1	0		
Trichloroethene	x	х	х	50 ppm	1000 ppm	X	89° F				1	1	

^{*} Where a value is listed in this column, the lower of the published OSHA PEL, ACGIH TLV, or NIOSH REL is provided.

W = water reactive Ox = strong oxidizer C = Ceiling limit never to be exceeded

determined through exposure monitoring. Respiratory protection will consist of full face air purifying or full face supplied air.

Cyanide:

Cyanide is most dangerous when hydrogen cyanide (HCN) gas is formed. HCN is formed when cyanide contacts acids. HCN is also capable of being formed when cyanide contacts the carbon dioxide contained in ambient atmospheres. HCN is the most dangerous chemical hazard present at the CCCI site because of its high acute toxicity.

Due to the high hazard of cyanide and the possible formation of HCN gas when handling cyanide, individuals will be required to use supplied air with an escape bottle and gas tight protective clothing. (There are currently no chemical air purifying respirator cartridges approved for hydrogen cyanide gas.)

Metals and Metal Compounds:

A variety of metals, including chromium and nickel, may be found in the sludges contained in the various pits, lagoons, and drums contained at the site. Other metals that may be present include lead, barium, mercury, arsenic, selenium, silver, and cadmium. Metals and metal compounds may cause central nervous system damage, blood, liver, and kidney damage. Chromic acid is particularly corrosive and may cause lung and upper respiratory system cancers.

Exposure to these metals is most likely to occur through inhalation of dusts or accidental ingestion. Creation of fume through the melting of these metals is not anticipated since all cutting is planned to be conducted with a shear. Protection from exposure to metals will be achieved through the use of respiratory protection, protective clothing, and hygiene practices. Levels of respiratory protection will be determined through exposure monitoring results.

Organic Solvents:

A variety of organic solvents have been identified at the site. These organic solvents are volatile and semi-volatile and include acetone, tetrachloroethene, benzene, 1,2-dichlorobenzene, 1,1-dichloroethane, dichloromethane, isophorone, 2-methylnaphthalene, naphthalene, 1,1,1-trichloroethane, trichloroethene, and toluene. Exposure to solvent vapor can cause damage to kidney, liver, and blood systems. Exposure to some solvents, including benzene and dichloromethane, can cause cancer.

Exposure to these solvents can occur through inhalation of their vapor, absorption and contact with skin, and accidental ingestion. Protection from exposure will be accomplished through the use of protective clothing and respiratory protection adequate for the level of exposure.

Respiratory protection will consist of full face air purifying with the appropriate chemical filter cartridge or air supplied full face respirators. Workers exposed to dichloromethane will be required to use air supplied full face respirators with escape packs since there is no chemical air purifying cartridge available approved for exposure to that chemical.

Polychlorinated Biphenyls (PCB's):

Exposure to PCB's at the CCCI site would result from contact with soils or sludges that contain PCB's. Inhalation of PCB containing materials would likely result from inhalation of dusts from soils or other materials containing the PCB's. PCB's are toxic to humans through inhalation, ingestion, and skin contact. Exposure to PCB's can result in kidney and liver damage, lung damage and damage to unborn children in pregnant women. PCB's are also suspected of causing cancer in humans.

Workers exposed to PCB's will be protected through the use of protective clothing. Workers exposed to PCB's will be required to wear air purifying full face respirators or air supplied full face respirator with an escape bottle. Levels of respiratory protection will be determined through exposure monitoring.

5.4.1.2 Physical Hazards Associated with Chemicals

Flammable Vapors and Gases:

A variety of materials found to be present at the CCCI site are flammable or combustible. These materials are contained in tanks, drums, and contaminated soils. The presence of these flammable materials creates hazards when flame or spark producing operations are present. Soils saturated with flammable materials can liberate vapors when excavated or disturbed in sufficient quantity to create a fire with an adequate source of heat. Table 5-1 identifies flammable and combustible materials and lists their flash points where applicable. Materials with no flash point provided have a flash point above 200° F and are not considered to be a fire hazard during normal operations.

Smoking, matches, lighters, and other flame or spark producing activities are prohibited with the exclusion and contamination reduction zones. Workers must exercise extreme care when handling or working near flammable materials. Transfer by pump of flammable materials must be performed by bonding and grounding the transfer system to prevent the development of a static charge that can provide a source of ignition. Equipment operators must exercise extreme care when removing underground tanks, lines, and drums to prevent scratching the metal and creating a spark that can ignite the vapor space in the vessel.

Reactive Hazards:

Many chemicals create hazards when mixed with one another. These chemical reactions liberate poisonous gases or vapors, generate tremendous heat, or can even result in explosions. The greatest reactive hazard at the CCCI site is the resultant formation of HCN gas when cyanide and acids are combined. HCN gas can also be liberated from the reaction with atmospheric concentrations of carbon dioxide. Chromic acid will ignite on contact with acetone. Acetone reacts explosively with strong oxidizing materials.

Extreme care must be taken to prevent the inadvertent mixing or contact of various materials at the site. The work plan addresses the segregation of wastes. Such segregation of waste helps prevent the accidental spilling and mixing of incompatible materials.

Corrosivity:

A variety of corrosive substances are present at the CCCI site including hydrochloric, sulfuric, and chromic acids. These substances can cause damage on contact to skin tissue and eyes and can cause damage to the lungs and upper respiratory tract if inhaled. Many of these corrosive substances have pH values ranging from 2 to 13. Substances with pH values greater than 8 or less than 6 can cause reactions ranging from dermal irritation to destruction of tissue. Care must be taken when handling corrosives to prevent contact or inhalation related injuries.

Personal protective equipment consisting of protective clothing and respiratory protection will help prevent exposure to the corrosive effects of the acids that have been identified on site. Levels of respiratory protection will be determined by the exact task being performed and the level of airborne acid gas determined through exposure monitoring. Respiratory protection will consist of full face air purifying or full face supplied air.

5.4.2 Physical Hazards

There are a variety of physical hazards present at the CCCI site. These hazards are as potentially dangerous as the chemical hazards associated with the hazardous materials contained at the project and must be recognized by all workers at the site. These hazards have been grouped into the major categories that follow.

5.4.2.1 Fall Hazards and Fall Protection

There are many potential fall hazards at the CCCI site. The majority of fall hazards will exist when workers climb or work on elevated structures at the site including tanks, buildings, and cooling tower. Workers may also be exposed to fall hazards when working in elevated equipment such as crane suspended work platforms, extensible boom aerial lifts, and scissors type lifts. Workers may also be exposed to the hazards associated with ladders and stairways used to access different levels of a building or structure at the site.

All persons that work in aerial lifts, or crane suspended work platforms, must be protected by a full body harness and a lanyard (personal fall arrest system) that limits their fall distance to a maximum of 6 feet at all times. Workers exposed to a fall from one level to another, such as working on top of an elevated tank, building, cooling tower, etc., must be protected from falling through the use of a guardrail system or personal fall arrest system when the fall hazard exceeds 6 feet.

Care must be taken to prevent the contact of personal fall arrest systems with corrosive materials. Acids can cause a rapid deterioration of components in a fall arrest system and result in failure when exposed to the forces of a fall. Workers should avoid dragging their lanyard through, or across, puddles or contaminated surfaces at the site. All fall arrest systems must be frequently inspected for such damage.

Fall protection requirements are found in OSHA's Construction Standards at 29 CFR 1926, Subpart L (Scaffolding), Subpart M (Fall Protection), Subpart X (Stairways and Ladders, and Subpart E (Personal Protective Equipment).

5.4.2.2 Electrical Hazards

There are a variety of electrical hazards that are present, or potentially present, at the CCCI site. These electrical hazards include overhead electrical, underground electrical, electrical hazards associated with the use of portable electrical tools and equipment, and hazards associated with locking and tagging of equipment present, or used at, the site.

Exposure to overhead and underground electrical hazards is limited since the site has been isolated from such sources for some time. However, it may be necessary for heavy equipment and cranes to pass under, or work near, temporary overhead power lines supplied to the support area of the site. Excavating at the site may reveal the existence of underground electrical cables. To the greatest extent possible, underground cables must be identified prior to any excavation activity that occurs at the site.

Workers may be required to use portable electrical tools, equipment, cords, and generators to supply power to perform their tasks. Such use exposes these workers to potential electrical shock caused by a short in the tool or equipment being used or by contact of the electrical cord or device with moisture.

Operators must stay at least 10 feet from any energized overhead power line with the boom, bucket, or any portion of the equipment.

Truck drivers must also avoid overhead power lines by keeping the bed of all dump beds at least 10 feet from overhead lines. Operators must also avoid contacting underground electrical cables when digging. The site should be surveyed prior to digging to locate any buried cables and to determine if any of those cables are energized.

Portable electrical tools, cords, and equipment must be inspected to protect the worker from electrical shock caused by contact with water or damage to the tool, cord, or equipment. All workers using electrical tools, cords, and equipment must be protected by a ground fault circuit interrupter device. This requirement also includes portable generators used to supply power to a tool, cord, or piece of equipment. Workers, or contractors, must periodically inspect all electrical tools, cords, and equipment for damage. Damaged cords or components must be repaired or replaced as necessary to ensure continued safe operation.

5.4.2.3 Excavation Related Hazards

It is anticipated that some excavation activities will be required at the CCCI site. Where such work is performed and workers will be required to enter into such excavations, a variety of hazards exist. Hazards include the potential collapse of the excavated bank wall (caught-between type hazards), roll of excavated material into the excavation and onto the worker (struck-by type hazards), and accumulation of water in the excavation. Confined space hazards associated with entry into excavations are discussed later.

Soil conditions at the CCCI site are likely to be classified as Type C soils due to the nature of the soil (granular) and the presence of water at relatively shallow depths. These hazards must be mitigated according to procedures described later in this procedure.

Contractors with employees that must enter and work in excavations must provide an individual with the training and knowledge necessary to qualify as a Competent Person for purposes of excavation safety. Excavations deeper than 5 feet, or possibly excavations less than 5 feet in depth, must be properly sloped or protected to prevent collapse of the excavated bank walls. Spoils must be placed at least 2 feet

from the excavated edge. Employees may not work in excavations in which water has accumulated, or in excavations in which water is accumulating. Water must either be removed or diverted before employees are allowed to enter and work in excavations. The specific requirements for excavations are found in OSHA's Construction Standards at 29 CFR 1926 Subpart P (Excavations).

5.4.2.4 Struck-By Hazards

A variety of struck-by type hazards exist at the CCCI site. Workers may be struck by heavy equipment or by loads being handled by heavy equipment. Workers may also be struck by materials being removed during demolition activities. Struck-by type hazards often result in head injuries. These hazards will not be present at all times during work at the site. For example, such hazards will not exist during the site assessment phase during drum sampling work.

Struck by hazards will be addressed through the use of hard hats. Hard hats will be required to be worn by all employees involved in the following activities:

- ' All demolition work
- All work being performed in close proximity to cranes and heavy equipment
- At all times when working in excavations
- Whenever the PSO or OSC determines that such protection is necessary

Struck-by hazards must also be mitigated by creating controlled access zones near the operation of heavy equipment and cranes and demolition work. The swing radius of cranes and heavy equipment must be protected to prevent workers from entering these danger areas and being struck by the equipment counterweight. Areas around demolition work areas must also be protected to prevent employees from entering areas where they could be struck by debris. Caution tape, barricades, and fencing are all acceptable methods of creating protection for such hazards.

5.4.2.5 Confined Space Hazards

Confined space hazards will exist during various phases of work at the CCCI site. Workers may be required to enter into storage tanks to complete cleanings and material removal. Workers may also be required to enter into excavations made in contaminated soils. Hazards associated with confined space entry include the presence of a potentially hazardous atmosphere and other hazards such as the flow of material into the confined space or the inability to self-rescue from a space.

Hazardous atmospheres, or potentially hazardous atmospheres, include the absence of sufficient oxygen (20.9%), the presence of a potentially flammable atmosphere (10% of the LEL), or the presence of a toxic atmosphere (at or above the toxic material's PEL or TLV). Confined space accidents typically involve the presence of hazardous atmospheres and typically result in fatalities of the confined space entrant and rescuers.

Tanks with baffles, or confined spaces with obstructions, that restrict a workers ability to self-rescue are additional hazards that must be considered when planning for appropriate confined space entry. The confined space entry procedures contained in this safety plan must be followed for all entries into potentially hazardous confined spaces.

Confined spaces at the CCCI site where confined space entry precautions must be taken include:

- Entry into empty storage tanks to facilitate sampling, cleaning, or other work
- Entry into excavations containing contaminated soils
- Entry into empty process vessels
- Entry into any pit
- Entries into other confined spaces identified by the PSO or OSC

Contractors whose employees must enter and work in potentially dangerous confined spaces must be adequately trained to handle the responsibilities associated with confined space entry including entry supervisor, attendance, and entrant. Appendix B of this Work Plan contains specific confined space entry procedures that must be followed. OSHA's General Industry Standard at 29 CFR 1910.146 must also be complied with.

5.4.2.6 Cranes, Heavy Equipment, and Rigging Related Hazards:

There will be a variety of heavy equipment at the CCCI site to perform a variety of tasks. The hazards associated with heavy equipment include crushing of employees working in front of or in back of the equipment, and crushing of workers between the counterweight and fixed objects. Hazards associated with cranes include tipping of the crane, loss of the load being craned, contact with power lines, and crushing of workers between the counterweight and fixed objects.

Rigging, including chains, wire rope, and nylon slings, must be rated for the weight being lifted. Hazards associated with rigging include failure due to defects, improper sling lifting angles, improper placement of clips, and failure due to overloading. Additional hazards associated with the improper use of rigging and lifting equipment includes employees working beneath the suspended load subjecting the employee to struck-by or crushing type injuries.

All rigging must be inspected prior to use each day. Wire rope that has been crushed or kinked must be removed from service or destroyed. Nylon slings must be inspected for cuts and excessive wear or for evidence of wear by thread wear indicators. The contractor responsible for rigging shall be responsible for making daily inspections. OSHA Construction Standard at 29 CFR 1926.251 identifies all requirements regarding the use of rigging.

5.4.2.7 Demolition Related Hazards

A variety of structures and buildings will be demolished and removed from the CCCI site. These include a cooling tower, a variety of tanks, and one and two story buildings. The hazards associated with demolition activities include collapse of the structure and hazards associated with the handling of debris. Demolition activities might also expose workers to the hazards associated with lead based paints that may be found on the surfaces of the structures being removed.

There is concern regarding the stability of the structures at the CCCI site due to their age and condition. Prior to entry by any worker, an engineering survey by a competent person must be made of the structure to determine the condition of the framing, floors, walls, and possibility of collapse. All piping that runs through these structures must be purged and cleaned prior to the start of any removal or demolition activity. The PSO shall designate a perimeter zone around the structure being demolished and the contractor will isolate this area with barricades or caution tape. OSHA's Construction Standards at 29 CFR 1926 Subpart T (Demolition) will be used as the reference for all demolition related safety activities.

5.4.2.8 Other Environmental Health Related Hazards

A variety of other environmental health related hazards are likely to exist at the CCCI site. These include:

- Noise levels exceeding 85 dBA
- Exposure to chemicals other than those found at the site (HAZCOM)
- Temperature extremes

Noise levels that exceed a time weighted average of 85 dBA may cause hearing loss in affected workers. A variety of activities may generate noise levels that approach or exceed this level. These activities include the operation of heavy equipment, working near

compressors or generators, and use of some equipment and tools. Excessive noise can also cause worker fatigue that can help contribute to accidents and injuries.

Noise levels calculated as an 8-hour time weighted average may be taken to determine workers exposure to noise during the performance of certain operations. Jobs or tasks determined to expose workers to excessive noise will require implementation of a hearing conservation program. Site workers will be offered appropriate hearing protection when 8-hour noise levels exceed 85 dBA. Site workers will be required to wear appropriate hearing protection when 8-hour noise levels exceed 90 dBA. OSHA's Construction Standards at 29 CFR 1926.52 address the elements of a complete hearing conservation program.

Temperature extremes are a concern at all hazardous waste sites. Work during warmer months will expose employees that wear protective clothing to heat exhaustion. Liquid tight clothing prevents evaporative cooling in workers and can result in rapid dehydration and fatigue. Work during colder months exposes the employee to wind and moisture that can result in hypothermia and frost bite.

Site workers that are required to wear protective clothing will be required to take frequent cooling breaks to prevent the onset of heat exhaustion and heat stroke. Potable water will be provided and employees will be instructed to replace lost fluids. Workers will be instructed to look for signs of fatigue in co-workers and notify a supervisor when signs of heat exhaustion become apparent.

Workers may be exposed to chemical hazards other than the chemical hazards present at the site itself. These chemicals may include fuels, gases, lubricants, neutralizing agents, and construction materials brought onto the site. All workers must be trained in the hazards of these materials and instructed in the location and availability of the site hazard communication program and material safety data sheets (MSDS).

Contractors that bring hazardous chemicals onto the CCCI site will be required to furnish the PSO, or designated PSO, with copies of the applicable MSDS. All contractors at the CCCI site will be informed of the location and availability of MSDS at the site.

5.5 Project Safety Procedures

This section of the Health and Safety Plan includes a general description of the work that will be performed, the general safety rules that apply to the site, and a general description of the safety procedures that will be followed.

5.5.1 General Safety Rules

This section represents general safety rules expected to be followed by all workers at the CCCI site. Other rules may be implemented by the PSO or OSC as necessary to address hazards not yet identified.

- All persons entering the site must register with the on-site security firm.
- All persons granted access to the site will be required to read the site Health and Safety Plan and certify that they understand and will comply with its requirements.
- Persons refusing to read the Health and Safety Plan or sign the certification will be refused access to the site.
- All persons entering the site must comply with the requirements in this
 Health and Safety Plan and the instructions provided by the PSO, OSC, or
 representatives of the PRP's.
- All persons that enter or work at the site must report to the PSO, or designated backup PSO, the occurrence of any accident, injury, or illness believed to be related to work at the site.
- All persons that enter or work at the site must be familiar with the location and use of all emergency equipment including fire extinguishers and first aid equipment.

- All persons that enter or work at the site must make reasonable effort to avoid contact with potentially hazardous substances by avoiding walking through puddles, sitting or leaning against drums or contaminated equipment, kneeling on the ground, etc.
- Persons required to wear respiratory protection at the site are required to remove facial hair that interferes with the face to face piece seal of the respirator.
- The consumption of food or beverages by any person is strictly prohibited when inside of the exclusion or contamination reduction zones.
- Smoking, matches, lighters, and any other spark or flame producing activity is strictly prohibited within the exclusion or contamination reduction zones.
- Personnel shall work in pairs when work requires the use of respiratory protective equipment, when entering any excavation, when entering any above ground structure, and when working near or above any pit, lagoon, or liquid containing structure.
- Personnel are expected to use the personal protective equipment identified in this Health and Safety Plan or as instructed by the PSO or OSC when performing certain tasks. Failure to use the prescribed equipment at all times, and as instructed, may result in removal from the site.
- All persons entering the site shall use care to avoid placing monitoring equipment, notebooks, brief cases, and other equipment onto contaminated surfaces.
- All persons that exit the exclusion and contamination reduction zones are required to wash face and hands immediately.
- Protective equipment such as respirators, boots, gloves, non-disposable clothing must be decontaminated or disposed of properly before being removed from the exclusion or contamination reduction zones.

- All persons entering the site must follow the instruction of the PSO, OSC, and representative of the PRP's. Failure to follow instructions provided by these persons may result in removal from the site.
- All persons on site involved in response operations should avoid the use of prescription drugs unless approved by a qualified physician. Working under the influence of alcoholic beverages while involved in response operations is not allowed.

5.5.2 Site Control and Work Zones

Site control and the creation and maintenance of specific work zones are necessary to reduce the possibility of potential exposure to site contaminants. Site control will be established by repairing and/or constructing a perimeter fence around the entire site. A 24-hour security service will also be provided to prevent unauthorized access and to help facilitate the logging in of all workers and visitors.

Work zones are also necessary to minimize or eliminate the transfer of hazardous substances into the "clean" area of the site. Three distinct work zones will be created at the CCCI site to prevent the unintentional transfer of hazardous substances and contamination of unprotected personnel:

Zone 1: Exclusion Zone

The exclusion zone will encompass all known contaminated areas within the site. The greatest potential for inhalation and dermal exposure to known contaminants is contained within the exclusion zone. All site personnel that enter the exclusion zone will be required to wear appropriate levels of protective clothing and respiratory protection specified by the PSO or the OSC.

An entry and exit checkpoint will be established at the periphery of the exclusion zone to regulate the flow of personnel and equipment into and out of this protected area.

Zone 2: Contamination Reduction Zone

The contamination reduction zone is located adjacent to the exclusion zone checkpoint and provides a means of transitioning between contaminated and clean areas of the site. Protective clothing, respiratory protection, tools, equipment, etc. will be cleaned and removed in the contamination reduction zone prior to entering the clean area. All decontamination facilities for personnel, tools, and equipment will be located inside of this contamination reduction zone.

If feasible, the contamination reduction zone, and associated decontamination facilities, will be located in a manner that allows personnel to transfer from contaminated to cleaner stations upwind.

Zone 3: Support Zone

The support zone will be established in a "clean" area at the periphery of the site. The support zone will house on-site office, sanitary, and security facilities. If feasible, the support zone and its facilities will be located in areas upwind from prevailing winds at the site.

The support zone has no significant air, water, or soil contamination. Protective clothing, respirators, tools, and equipment are not allowed in the support zone unless they have been thoroughly decontaminated in the contamination reduction zone.

Establishing Work Zones:

The PSO or OSC will determine the location, and control access to, the three work zones established at the CCCI site. Workers shall never enter into the exclusion zone or contamination reduction zones without the proper protective clothing and respiratory protection as indicated in this plan or as directed by the PSO or OSC.

5.5.3 Task Specific Safety Procedures

This section provides guidance to determine the protection required to complete major tasks at the CCCI site. In many cases, the specific level of protection will be determined by the concentration of hazardous substance in air and the exact methods to be used to complete a certain task. Table 5-2 is provided as a general reference to determine what type of protection will be required for the task being performed.

The following are summaries of the safety procedures that are to be followed during major phases of work planned at the CCCI site. The PSO, designated backup PSO, or OSC may determine that additional safety procedures are to be followed based upon conditions or circumstances present at the time.

5.5.3.1 Securing the Site:

Ordinary safety equipment consisting of hard hat, eye protection, and safety shoes should be adequate for securing the site. Additional protection, such as rubber boots or protective clothing may be necessary if the worker must walk or stand in contaminated water while securing the site.

5.5.3.2 Cleaning the Site:

There is a substantial amount of scrap and debris at the site that should be removed prior to commencement of cleanup activities. This will allow greater flexibility of movement and provide staging areas. Workers involved in removal of this material should wear a hard hat, safety glasses, gloves, and safety shoes while performing this work. The PSO, designated backup PSO, or OSC may determine that additional protection is necessary and may require the use of protective clothing and respiratory protection.

Table 5-2 - Safety Procedures and Protection by Task

	secure site	clean site	inventory drums tanks	sample drums tanks lagoons	soil borings	pump out tank contents	clean cut and scrap tanks	pump out or overpack drums	excavate contaminated soil	install hanging containment	remove all asbestos containing	demolish buildings and
				lagoons				drums	Son	barrier	materials	structures
hard hats	X	Х	X	X	Х	Х	Х	X	Х	Х	Х	Х
eye/face protection	Х	Х	X	X	Х	X	Х	х	х	Х	X	Х
safety shoes	X	Х	Х	Х	X	X	Х	X	Х	X	X	Х
hearing protection		AN			AN	AN	AN	AN	Х	AN	AN	Х
protective clothing	·	PSO	PSO	Х	PSO	Х	X	Х	PSO	PSO	Х	PSO
respiratory protection		PSO	PSO	X	PSO	Х	Х	X	PSO	PSO	X	PSO
decon		PSO	PSO	X	PSO	X	X	Х	PSO	PSO	X	PSO
worker air monitoring		PSO	PSO	Х	PSO	Х	Х	Х	PSO	х	х	PSO
perimeter air monitoring		PSO		PSO	PSO	PSO	PSO	PSO	PSO	Х	Х	PSO
confined space entry				PSO		PSO	Х		PSO		PSO	
excavation procedures							PSO		Х	X		
fall protection		-		AN			AN		AN		AN	PSO
electrical safety					X		AN		Х	Х	AN	Х
engineering survey												Х
barricade work area				,			Х		AN		Х	Х
crane signals	 	AN		AN			X		AN	AN		X
rigging inspections		AN		AN			Х			AN		Х
chemical segregation						Х		X	х			

AN - As needed

PSO - To be determined by PSO or OSC X - Required during work activity

5.5.3.3 Inventory Drums and Tanks:

The simple inventorying of drums and tanks should not expose workers to any great hazards provided the worker does not touch or handle the drums or tanks. Hard hat, safety glasses, safety shoes, and gloves are to be used when taking inventories of drums and tanks. The PSO, designated backup PSO, or OSC may determine that additional protection is necessary.

5.5.3.4 Sampling Drums, Tanks, and Lagoons:

The sampling of drums, tanks, and lagoons must be performed in personal protective equipment. The level of protection will be determined by the PSO, designated backup PSO, or OSC. Sampling of lagoons may require that workers be suspended by crane or other hoisting device. These workers must wear fall protection during such procedures.

5.5.3.5 Pump Out and Clean Scrap Tanks:

The PSO, designated backup PSO, or OSC will determine the level of protection necessary for pumping out tank contents. Level B protection may be utilized for workers involved in pumping out the contents of the large cyanide tank provided workers are protected by an alarmed personal hydrogen cyanide gas detector. Cleaning of tanks will require use of the confined space entry procedure. Levels of protection for tank cleaning will be determined by the PSO, designated backup PSO, or OSC.

5.5.3.6 Handling Drums:

Various drums will need to be pumped out or overpacked. Level B protection may be required. Decisions regarding the level of protection will be based upon evaluation of sample results and will be determined by the PSO, designated backup PSO, or OSC. Air monitoring will be performed to ensure adequate levels of protective equipment.

5.5.3.7 Excavate Contaminate Soil:

Soils will likely need to be excavated. Levels of protection will be determined by results of soil sampling and will be determined by the PSO, designated backup PSO, or OSC. Proper excavation procedures must be followed and confined space entry procedures must be followed for workers that must enter the excavated areas.

5.5.4 Air Monitoring

A comprehensive air monitoring program will be implemented at the CCCI site. Monitoring will consist of initial screening and monitoring, perimeter monitoring, worker exposure monitoring, and atmospheric monitoring for all confined space entry situations. Specifics concerning the air monitoring program, or additional air monitoring, will be determined by the PSO, alternate backup PSO, or OSC as operations and exposures dictate.

5.5.4.1 Daily Air Monitoring

Daily air monitoring will be conducted frequently throughout each work day when site activities are likely to cause the release or dispersion of hazardous chemicals into the air. Daily air monitoring will be conducted using an HNU photoionization detector at several downwind areas at the perimeter of the site and in areas where work is being performed that is likely to cause chemicals to become airborne. Additional daily monitoring using the photoionization detector will be determined by the PSO, alternate backup PSO, or OSC.

5.5.4.2 Perimeter Air Monitoring

Continuous perimeter air monitoring for specific compounds will be determined by the operation being performed, the relative toxicity of the chemical or chemicals involved in the operation, and the probability of the chemical becoming airborne during the operation. This will be determined by the PSO, alternate backup PSO, or the

OSC. Placement of continuous air monitoring equipment will be at the perimeter of the site in a predominantly downwind location or as directed by the PSO or OSC.

5.5.4.3 Worker Exposure Monitoring

Worker exposure monitoring will be conducted by collecting representative full shift air samples for the hazardous chemicals identified as present in the work being performed. In general, worker exposure monitoring will be conducted at the commencement of each major phase of work described in the work plan and shall continue until representative samples have been obtained.

All workers in those tasks for which representative exposure monitoring was conducted shall be notified in writing of the results of the exposure monitoring and the actions, if any, to reduce their exposure or increase/decrease levels of personal protective equipment being used.

5.5.4.4 Documentation

Results of all air monitoring will be documented and maintained by the PSO or alternate backup PSO. Documentation shall be kept on site at all times. Workers requesting air monitoring information must be shown results or provided with a copy of the results representative of their previous or actual exposure.

5.6 Decontamination Procedures

Decontamination must be conducted to prevent the contamination of personnel, facilities, and equipment located outside of the contamination reduction and exclusion zones. Decontamination can also greatly extend the useful life of protective clothing and respiratory protective equipment and other tools and equipment used at the site.

5.6.1 Equipment Decontamination

Equipment and sampling tools will be decontaminated before being transferred into the support zone. Workers that perform equipment decontamination will wear protective clothing, respiratory protection, and eye and face protection as determined by the PSO or OSC.

Corrosive substances can be splashed into eyes or onto skin during the decontamination process. Chemical splash goggles and/or full face shields may be required during decontamination of tools or equipment contaminated with acids. See list of chemicals in table 5-1.

The following methods should be used to facilitate decontamination of tools and equipment:

- Pressure wash all surfaces of the tool or equipment
- Wash all surfaces with a dilute detergent soap solution
- Perform a triple rinse of all surfaces with potable water
- All electronic and sensitive monitoring equipment should be protected from surface contamination by covering with plastic or plastic bags.
- Exposed surfaces of sensitive monitoring equipment will be cleaned with wet cloths and alcohol wipes.
- Contaminated rags, protective plastic, contaminated rinsate, etc. will be
 placed in appropriate containers for proper disposal according to local, state,
 and federal requirements.

5.6.2 Personnel Decontamination

Personnel decontamination is critical to prevent the transfer of hazardous substances to the support zone. Effective decontamination is also necessary to prevent a secondary exposure to workers or others when removing protective clothing and respiratory protection.

Decontamination that is not performed, or performed ineffectively, can also result in workers bringing hazardous substances into their homes and exposing their family members. The PSO and OSC will ensure that effective decontamination occurs.

Where practicable, and safe, disposable protective clothing will be used. When disposable protective clothing is used, it must be removed in a manner that prevents the spread of contamination to other clothing or areas of the body. All disposable clothing, gloves, foot coverings, etc. must be removed by carefully turning them inside out as they are removed.

Disposable protective clothing contaminated with dusts containing hazardous substances, such as PCB's, should first be vacuumed with a HEPA filter vacuum or decontaminated by a water rinse, before workers remove their protective clothing. This will help prevent the migration of dust from the outside of the protective clothing onto the workers street clothing as it is being removed.

Site workers that assist others in decontamination activities must wear personal protective equipment to prevent a secondary exposure to hazardous substances during the decontamination process. Such protective equipment may include protective clothing, eye and face protection, and respiratory protection. The PSO or OSC shall determine what personal protective equipment is required for those that assist during decontamination.

5.7 Personal Protective Equipment

The type of personal protective equipment to be used at the CCCI site will depend upon the nature and level of exposure encountered during work performed within the exclusion and contamination reduction zones at the site.

Certain activities conducted within the exclusion zone will not require workers to disturb or come into direct contact with the hazardous substances identified at the site. An example of such an activity is the inventorying of various drums at the site. This process should not involve the touching or disturbance of materials contained within the drums. The PSO or OSC will ultimately determine the personal protective equipment required during the performance of tasks at the site. This determination shall be based upon the possibility of contact and the concentration of airborne contaminants present.

5.7.1 Respiratory Protection:

5.7.1.1 General:

Respiratory protection will be an integral part of the personal protective equipment program at the CCCI site. Respiratory protection provides protection only when all elements of an effective respiratory protection program have been implemented. An effective respiratory protection program includes:

- Proper selection of the respirator to be used
- Worker medical evaluation
- Extensive worker training in the limitations and use of the respirator
- Periodic fit testing in the respirator
- Absence of facial hair in the sealing area of the respirator
- Proper cleaning and sanitization of the respirator
- Periodic inspection of the respirator and its components
- Periodic audit of the respiratory protection program

All workers and contractors at the CCCI site will be required to comply with the respiratory protection program in effect at the site. Table 5-3 describes the required respiratory type and chemical and warning properties for various chemicals of concern. Respiratory protection programs must comply with OSHA's respiratory protection standard at 29 CFR 1910.134. A copy of the site respiratory protection program is contained in Appendix C of this Work Plan.

5.7.1.2 Level C Respiratory Protection

Certain tasks will require the use of respiratory protection at the CCCI site. Levels of respiratory protection may range from full-face air purifying respiratory protection to supplied air respirators with escape bottles. Generally, full-face air purifying respirators may be used to protect against airborne concentrations of hazardous substances with protection factors ranging from 50x up to 100x the permissible

Table 5-3 - Selection of Respiratory Protection by Chemical & Warning Properties

Chemical	Resp	iratory Protection by T	Odor Threshold	Warning Properties					
	supplied air/escape	full-face air purifying (< 50x PEL/TLV)	cartridge type						
acetone		X	OV	3.6-653 PPM	questionable warning				
arsenic		X	P-100	n/a	mechanical filter-warning n/a				
asbestos		X	P-100	n/a	mechanical filter-warning n/a				
barium		X	P-100	n/a	mechanical filter-warning n/a				
benzene		X	OV	34-119 PPM	poor warning properties				
cadmium		X	P-100	n/a	mechanical filter-warning n/a				
chromium compounds		X	P-100	n/a	mechanical filter-warning n/a				
cyanide	X	n/a	n/a	n/a	poor warning as HCN				
1,2-dichlorobenzene		X	OV	.7 PPM	no warning information				
1,1-dichloroethane	X	n/a	n/a	49-1359 PPM	questionable warning				
dichloromethane	X	n/a	n/a	160 PPM	poor warning properties				
hydrochloric acid		X	AG	.25-10.06 PPM	irritation provides warning				
isophorone		X	OV	.19 PPM	no warning information				
lead		X	P-100	n/a	mechanical filter-warning n/a				
mercury		X	Hg/P-100	n/a	mechanical filter-warning n/a				
2-methylnaphthalene		X	OV	n/d	no warning information				
naphthalene		X	OV	.038 PPM	good warning properties				
PCB's - various		X	OV/P-100	n/d	no warning information				
selenium		X	P-100	n/a	mechanical filter-warning n/a				
silver		X	P-100	n/a	mechanical filter-warning n/a				
sulfuric acid		X	AG/P-100	.15 PPM	mechanical filter-warning n/a				
tetrachloroethene	X	n/a	n/a	47 PPM	no warning information				
toluene		X	OV	.16-37 PPM	questionable warning				
1,1,1-trichloroethane	X	n/a	n/a	390 PPM	questionable warning				
trichloroethene	X	n/a	n/a	82 PPM	poor warning properties				

exposure limit (PEL), recommended exposure limit (REL), or threshold limit value (TLV). Certain substances, such as lead, restrict the use of full-face air purifying respirators to a concentration not exceeding 50x the PEL.

Level C respiratory protection may not be used to protect against certain hazardous substances, regardless of the concentration in air. Air purifying respirators may not be used for protection against any concentration of HCN or dichloromethane. Therefore, tasks that might expose site workers to concentrations of HCN or dichloromethane will require level B respiratory protection consisting of a full-face air supplied respirator with escape air.

5.7.1.3 Level B Respiratory Protection:

Certain tasks will require the use of level B respiratory protection at the site. Examples of such activities may include entry into tanks containing IDLH atmospheres of hazardous substances, exposure to unknown concentrations of extremely hazardous substances during the performance of work, and for exposures to any concentration of dichloromethane or HCN.

Where probable exposures to unknown airborne concentrations of the dusts, mists, vapor, fumes of hazardous substances exist, and until exposure monitoring data provides known concentrations of such substances during certain work activities, the use of full-face, positive pressure or pressure demand, supplied air respiratory protection will be used. The PSO or OSC will determine when such equipment is to be used during the performance of such work.

5.7.2 Protective Clothing:

A variety of protective clothing may be required when working at the CCCI site. The following protective equipment will be required to be worn at all times after entering the site:

- Hard hat
- Safety glasses
- Safety shoes or boots

The equipment above is not required to be worn in temporary offices or trailers. Equipment such as safety glasses will not be required to be worn when equipment such as full-face respiratory protective equipment is being used.

5.7.2.1 Chemical Protective Clothing:

In addition to the above personal protective equipment, chemical protective clothing will be required to be worn during the performance of certain tasks. The PSO or the OSC has the authority to determine the level of chemical protective clothing required to be used during certain operations. The level of protection required will be based upon the potential for contact with certain hazardous substances during the performance of work, the nature and danger of the hazardous substance, and potential for the substance gas, liquid, or vapor to be absorbed through the skin. Chemical protective clothing requirements for chemicals of concern are outlined in Table 5-4.

In general, site assessment activity that does not expose workers to dermal or airborne dermal absorption hazards will not require the use of chemical protective clothing.

5.7.2.1.1 Level D Protective Clothing:

If workers are required to handle, touch, or come into close proximity with drums, tanks, or other site contamination, a minimum of level D protective clothing will be required. Variants of protective clothing might include the requirement to wear chemical resistant boots and gloves. Requirements for protective clothing will be determined by the PSO or the OSC.

Table 5-4 - Chemical Protective Clothing by Chemical

Chemical	Co	overall Materia	ıls		Chemical Boots				
	Blue Max	Saranex Tyvek	Tyvek	Silver Shield	Viton	Nitrile	Butyl	Neoprene	
acetone	Н	M	L				HML		
arsenic			LMH					HML	
asbestos			LMH					HML	
barium			LMH					HML	
benzene	Н	M	L	HML					
cadmium			LMH	 				HML	
chromium compounds	HM*		L				l	HML	
cyanide**	HM		L	HML			1		
1,2-dichlorobenzene	Н	M	L		HML				
1,1-dichloroethane	Н	M	L		HML			1	
dichloromethane	HM	-	L	HML					
hydrochloric acid	HM	M	L		ĺ			HML	
isophorone	HM		L					HML	
lead			HML					HML	
mercury		-	HML				ì	HML	
2-methylnapthalene	Н	M	L			HML	i		
naphthalene	Н	M	L			HML			
PCB's - various	Н	M	L***					HML	
selenium			HML					HML	
silver			HML					HML	
sulfuric acid	Н	M	L					HML	
tetrachloroethene	HM		L		HML				
toluene		HM	L		HML				
1,1,1-trichloroethane		HM	L		HML				
trichloroethene	HM		L		HML				

L = Low or virtually no probability of splash or contact
M= Moderate probability of splash or contact
H= High probability of splash or contact

^{*} For exposure to chromic acid

** Potential exposure to HCN and ONLY where HCN detection is provided

*** For exposure to PCB particulate

****Silver shield used as an outside glove

5.7.2.1.2 Level B & C Protective Clothing:

The handling of strong concentrations of acids will require at least level B & C protection to prevent any possible contact with skin and eyes. This level of protective clothing will be required during the sampling, transfer, drum handling, etc. of acids or as directed by the PSO or OSC. Level B & C protective clothing will also be required to be used to protect against hazardous substances that are easily absorbed through the skin.

Level B protective clothing will be required during the handling of cyanide where the formation of HCN is possible. When Level B protective clothing is used for this purpose, each worker must also be protected by an alarmed personal HCN gas detector to allow adequate warning to safely evacuate the area.

5.8 Emergency Procedures & Accident Reporting:

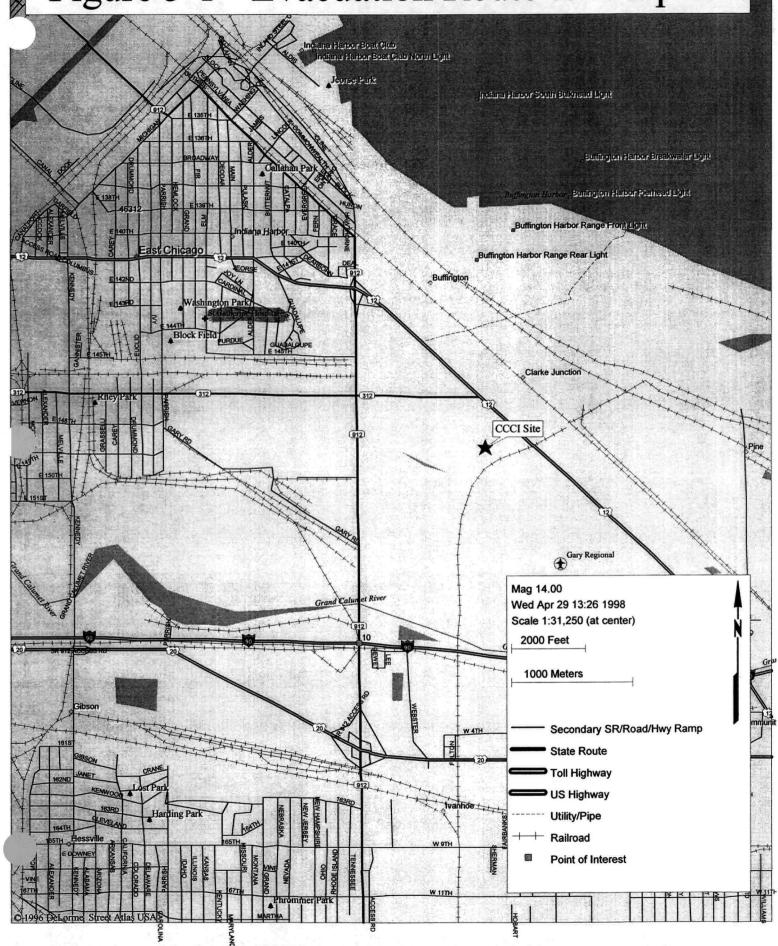
The purpose of the Health and Safety Plan is to prevent the occurrence of accidents, injuries, or events that threaten the health and safety of site workers and/or the general public. In the event an injury or incident occurs, the following plan must be implemented to minimize the effect of the emergency to workers at the site or to the general public.

5.8.1 Injuries:

5.8.1.1 Life Threatening Injuries:

The highest priority in the event an injury occurs to a worker at the site is to provide immediate first aid or medical attention to the injured worker. The level of care required for the injured worker may range from simple first aid to emergency medical emergencies requiring emergency transport to a hospital. (The evacuation route to the closest hospital is depicted in Figure 5-1.)

Figure 5-1 - Evacuation Route to Hospital



Personnel trained in CPR and first aid should be available at the site. Depending on the severity of the injury, it may be necessary to provide life saving assistance such as rescue breathing and/or cardio pulmonary resuscitation.

Such personnel must assess the nature of the illness or injury and determine if it is safe to move the employee. In general, unconscious persons should not be moved, unless they are in an area of immediate danger, such as a fire or chemical spill. If the person is in an area of immediate danger, rescuers should determine if it is safe to enter the area to move the employee. Many emergencies result in injuries to, or fatalities of, rescuers. Never enter an area of immediate danger unprotected for the purpose of rescuing another person.

Workers that are unconscious, or otherwise seriously injured, will be taken immediately to the support zone. Any decontamination that may be necessary will be performed in the support zone in addition to emergency first aid procedures and preparation for transportation to a medical facility.

5.8.1.2 Chemical Injuries:

Injuries involving hazardous chemicals require immediate first aid assistance. The following procedures will be followed in the event contact occurs with a hazardous chemical:

Eye Contact: Hazardous chemicals that have been splashed or contacted a workers eye must be irrigated with potable water or eye wash solution for a minimum of 15 minutes prior to, or during, transportation to a medical facility. When irrigating, be sure to turn the workers head toward the side with the injured eye to prevent the eye irrigation water from entering the uninjured eye.

Skin Contact: Hazardous chemicals that have been splashed onto or contacted a workers skin must be flushed with water for a minimum of 15 minutes. Injuries that result in immediate and severe tissue damage should not be treated or irrigated with anything other than tepid potable water. Emergency medical attention must be provided for injuries resulting in severe tissue damage or persistent irritation or pain from contact with the substance.

Inhalation:

A worker that is overcome by the inhalation of dusts, mists, vapors, gases, or fumes from hazardous chemicals shall be moved to the support zone, ONLY IF SAFE TO DO SO BY PROTECTED RESCUERS. Once moved to the support zone, the injured worker will be allowed to breathe fresh air. Rescue breathing shall be administered if the worker's breathing has stopped, but rescuers must avoid inhaling the victim's exhaled air. Emergency medical attention must be obtained immediately for all inhalation related injuries.

Ingestion:

If a site worker accidentally ingests a hazardous substance, the worker shall be taken to the support zone immediately. The nearest poison control center shall be contacted immediately to determine if any immediate actions can be taken to neutralize or reject the ingested substance. The worker must then be transported to the nearest hospital for treatment.

5.8.1.3 Non-Life Threatening Injuries:

Less serious injuries or illnesses may be able to be treated by trained first aid personnel on site. If there is any question as to the severity, or appropriate treatment for, an injured worker, that worker shall be transported immediately to the nearest medical treatment facility or hospital.

5.8.2 Reporting Accidents and Injuries:

The PSO, designated backup PSO, or OSC must be notified of ALL accidents, injuries, and incidents that occur at the CCCI site. Notification must occur verbally at the time of the incident and followed up with a written report prepared by the contractor that employs the injured worker. The emphasis of all accident investigation and reporting must be the direct and indirect causes of the event and, more importantly, the actions that will be taken to prevent the recurrence of a similar event in the future.

Unless directed otherwise by the PSO, designated backup PSO, or the OSC, complete, written accident reports must be submitted to the PSO within 24 hours following the accident or injury. Contractors assume all responsibility for the reporting of injuries involving their employees to the appropriate insurance company and/or state industrial accident commission.

The procedure and forms contained in Appendix D of this Health and Safety Plan shall be used to document accidents and injuries. Contractors are responsible for making entries on the OSHA 200 form and for making reports to the appropriate state industrial accident board.

5.8.3 Fires:

Workers that have been trained in the use of portable fire extinguishers shall use dry chemical portable fire extinguishers to extinguish incipient stage fires only. Workers that cannot extinguish incipient stage fires with portable fire extinguishers must evacuate the area immediately and notify the PSO, designated backup PSO, or OSC.

The Gary, Indiana Fire Department must be contacted immediately when a fire occurs that cannot be controlled with portable fire extinguishers. At their direction, soil or other inert materials may be used to cover and suffocate the fire.

5.8.4 Evacuation Plan:

The products of combustion produced by fires are often much more hazardous than the materials themselves. The PSO, designated backup PSO, or OSC may order the evacuation of the site in the event a fire produces large quantities of potentially toxic gases. The PSO, designated backup PSO, or OSC should order evacuation off site to areas located upwind of the smoke and gas cloud migration.

Should the PSO, designated backup PSO, or OSC determine that evacuation of the site is necessary as a result of a fire, or other emergency at the site, the evacuation shall be annunciated by sounding three long blasts with an air horn. Site workers will use the closest evacuation route to the outside of the site. The evacuation route selected should be located in an upwind location whenever possible.

Available vehicles located in the support zone, or off-site, can be used to facilitate the evacuation of site workers and others. The PSO, or his alternate, shall be responsible for coordinating the accounting of all site personnel. The visitor log shall be used as the basis for determining those that have been safely evacuated. The responding Gary Fire Department will be notified upon arrival of any persons not accounted for and a general description of where they were last seen working.

The PSO, designated backup PSO, or OSC must ensure that the Gary Fire Department and Police Department are informed of the identity and hazards of the substances involved in the fire. The ultimate evacuation of locations nearby is the responsibility of the Police and Fire Departments.

5.9 Auditing the Effectiveness of the Site Health and Safety Plan:

The effectiveness of the CCCI Site Health and Safety Plan depends entirely upon the cooperation of all personnel involved in the project. The vast majority of accidents and injuries result from the actions, or lack of actions, of an individual. Safe work practices are detailed in this Plan. Site workers must be familiar with, and adhere to, these requirements.

The PSO has overall responsibility for the health and safety of all persons working at, or visiting, the CCCI site. It is the responsibility of all persons that work at this site to notify the PSO of unprotected or unidentified hazards or violations of safety requirements that they might observe. Contractors are responsible for identifying and correcting hazards or violations committed by their employees and for disciplining when necessary.

The PSO, or the designated backup PSO, is responsible for conducting informal, daily safety audits at the site. The purpose of these audits is to determine compliance with the requirements of this health and safety plan and commonly accepted safety practices during the performance of work at the site. Hazards that are noted during such audits, or serious safety violations that are observed, should be noted in a designated field logbook and corrected or scheduled for correction.

At least once during each week of field activities and for the duration of the project, the PSO or designated backup PSO shall make a formal, documented safety audit of work activity at the site. Copies of this safety audit shall be kept on file on site.

The PSO or designated backup PSO shall also perform safety audits upon commencement of certain major activities scheduled to occur. Examples of the need for such audits include overpacking of leaking drums, demolition of structures, abatement of asbestos, transfer of chemicals from tanks into tank trucks, entry by employees into excavations, etc.

The CCCI Site Health and Safety Plan is designed to be dynamic. The requirements of the plan may change according to changes in the Work Plan or as directed by the PSO, designated backup PSO, or OSC. Methods and personal protective equipment used to protect workers during the performance of certain tasks may change depending upon the concentrations of contaminants present during the performance of such work.

The PSO or designated backup PSO must inform all affected workers of the development of new procedures or modifications to this Health and Safety Plan. All communications regarding health and safety at the site must be documented. A form to facilitate such communication is contained in Appendix D of this Work Plan.

6.0 REMEDIATION ACTIVITIES

Based on the results obtained from the site investigation (Section 2.2) and in response to additional requirements in the Order, various site cleanup and waste removal activities will be performed. For purposes of this Work Plan, the entire site will be deemed as the operable unit for remediation. The activities to be performed are discussed in the following sections.

6.1 Decontamination Pad

Since hazardous materials will be encountered during the sampling and removal activities, decontamination of equipment coming in contact with the materials will be required. An assessment of the integrity of the former decontamination (decon) pad will be performed to evaluate the viability for its use during the implementation of this Work Plan. Modifications to or upgrading of the decon pad, if required, will be made prior to performing any sampling or removal activity. If for any reason the location of the existing decon paid is not desirable, a new decon area will be designated as directed by the OSC.

6.2 Buried Drums and Tanks

Any drums or tanks detected during the geophysical and magnetometer studies will be excavated. Any drum or tank found to be leaking will be containerized to mitigate the release to the subsurface environment. Once the contents or material released has been characterized and properly transferred to a suitable container for disposal, the drums and/or tanks will be cleaned to render them non-hazardous. The final disposition for the cleaned drums and/or tanks is described in Section 6.8.

The waste materials removed from the drums and/or tanks will be subjected to the hazcatting procedures outlined in Section 3.3.3 and will be disposed of at either a non-hazardous waste facility or at an EPA-approved RCRA facility that is in compliance with the CERCLA off-site rule.

Any contaminated soils encountered during the excavation activities will be disposed of in accordance with the procedures described in Section 6.5.

6.3 Non-Hazardous Materials

If the residual liquid from any tank, drum, pit, basin or decontamination procedure is determined by sampling to be uncontaminated, it will be directly discharged to the ground surface. If it is determined to be contaminated by non-hazardous constituents, it will either be disposed of by either directly discharging it to the City of Gary Sanitary District, after obtaining permission, or by transporting it in bulk to an off-site EPA-approved non-hazardous waste treatment facility. Documentation of this removal will be included in the Final Report (See Section 7.0). Non-hazardous solid materials will either be left in-place or leveled to grade.

All uncontaminated aboveground structures will be demolished and the resulting materials that are classified as non-hazardous debris, along with all general refuse generated, will be disposed of at a solid waste management facility.

6.4 Hazardous Materials

All materials contained in storage tanks, drums, pits, basins, and labpacks or resulting from decontamination procedures that are determined to be hazardous will be combined into compatible hazardous waste groups. A composite sample of each compatible material group will be obtained and submitted either to the selected laboratory or the potential disposal site for waste profile analysis and approval. The selected disposal facility will be an EPA-approved RCRA facility that is in compliance with the CERCLA off-site rule. Once disposal approval has been secured, the hazardous materials will be loaded and transported off-site. Documentation of this removal will be included in the Final Report.

However, if the hazardous material can be treated on-site to render it non-hazardous such as through the use of carbon filtration, it will either be managed as a non-hazardous waste (See Section 6.3) or left on-site as directed by the OSC.

6.5 Subsurface Soils

Subsurface soils encountered during the removal of any buried drum or tank, or as a result of the subsurface characterization study, which are determined to be RCRA contaminated based on field observations or analytical sampling will be excavated and

staged in a designated area of the site on and under a protective plastic cover to await disposal. The stockpile will be sampled, profiled, and upon acceptance, disposed of at an EPA-approved RCRA facility that is in compliance with the CERCLA off-site rule.

If PCB contaminated soil (greater than 50 ppm) is encountered during the removal activities, in the amount of 500 cubic yards or less, that soil will be excavated, loaded, and removed off-site. Disposal of this waste will be at an EPA-approved TSCA facility that is in compliance with the CERCLA off-site rule.

Documentation of these removals will be included in the Final Report.

6.6 Lagoon Sludge

Based on the results of the investigation activities performed on the pie basin, acid sludge, and off-site lagoons, the sludge in each lagoon will be determined to be either adequately stabilized or in need of additional stabilization.

If additional stabilization is required in any area of the three (3) lagoons, an additional neutralization material, such as concrete or lime, will be added to that area until it is successfully demonstrated by analytical sampling that it is stabilized. Once stabilization is complete in all lagoons, the sludge from all off-site lagoons will be removed and transferred to one (1) or both of the lagoon areas located on-site. Since the material in the off-site lagoon areas contains iron oxide that has a characteristic orange/red color, removal of the material from the off-site lagoon will be completed based on visual observations. When all stabilized sludge has been placed on the CCCI site property, it will be covered with a 2-foot thick clay cap which will be graded and sloped to divert stormwater from the capped surface.

6.7 ACM Removal

Based on the results of the ACM investigation, all materials verified to be ACM will be removed by a licensed contractor after proper notification to IDEM and disposed of at an approved disposal facility in accordance with all applicable regulations. The removal of all ACM will be performed prior to the dismantlement or demolition of any aboveground structure, building or container.

Documentation of any removal will be included in the Final Report.

6.8 Scrap Metal

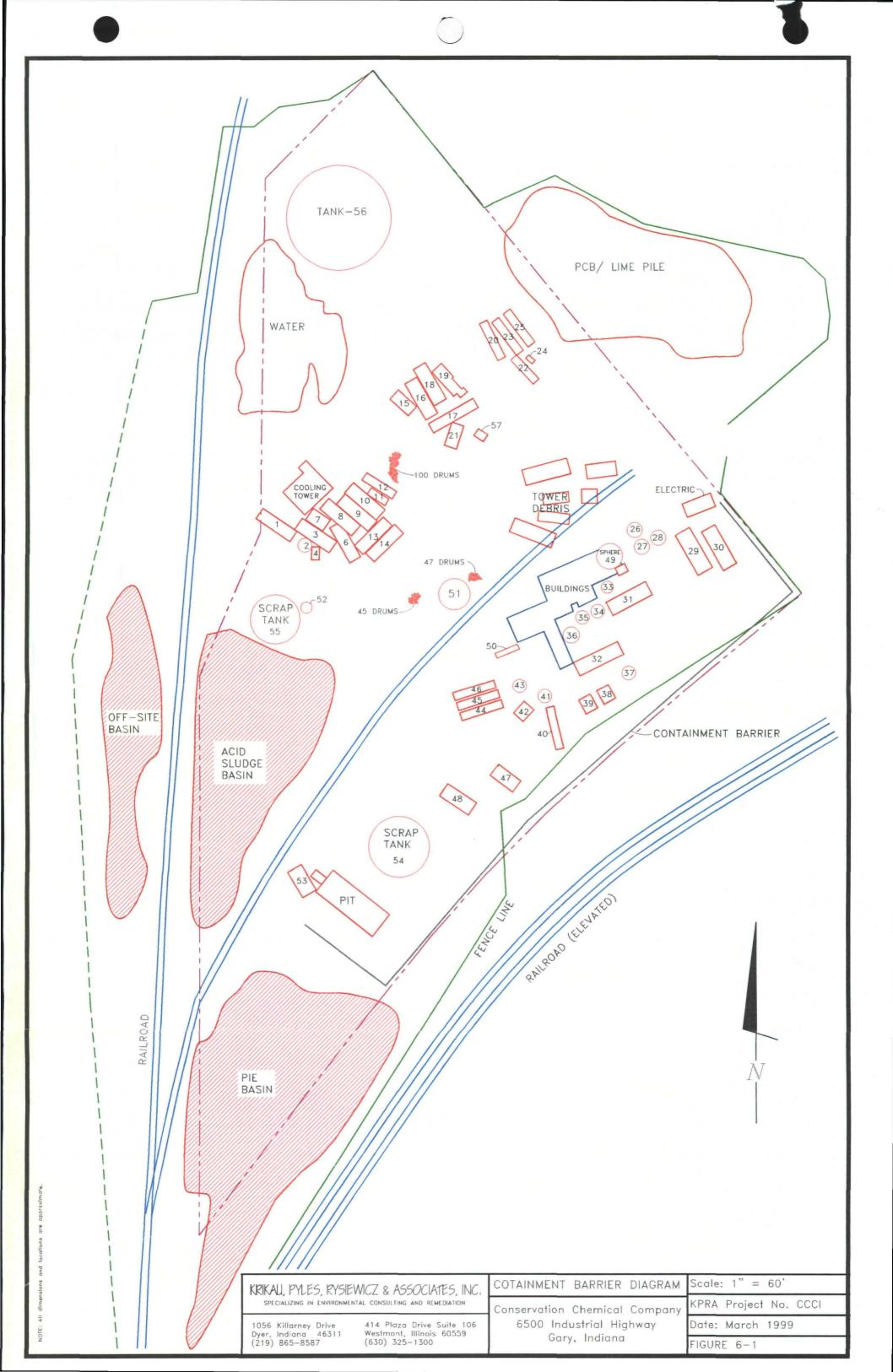
Once all tanks and drums have been successfully decontaminated, they, along with other scrap metal at the site, will be cut into manageable pieces on-site and sold to a scrap metal recycler. The proceeds from this will be used by the PRP's to pay a portion of the costs incurred by performing the activities in this Work Plan.

6.9 Containment Barrier

A containment barrier will be installed along the southwest border of the site after a geophysical investigation to identify potential subsurface impediments has been completed. This containment barrier is to extend from the ground surface to the shallow aquifer to contain the layer of floating petroleum. Figure 6-1 illustrates the location of this containment barrier. The barrier will be constructed utilizing an impermeable material such as a high density polyethylene (HDPE) geomembrane or steel sheet piling depending on the subsurface impediments encountered. Either barrier will be installed utilizing a trenchless, vibratory technique. However, if site specific conditions prohibit this type of installation, an investigation to determine an alternative type of barrier that is technically feasible, economically reasonable and acceptable to both the PRP's and the OSC, will be performed. Once the suitable alternative installation is determined, it will be constructed as required.

6.10 Monitoring Wells

All existing monitoring wells that have been identified and located on the CCCI site will be closed in accordance with applicable methods prescribed and defined by the Indiana Department of Health and consistent with IDEM's regulations (310 IAC 16-10-2). Monitoring well closure will include plugging with an impervious grouting material, removal of aboveground monitoring well appurtenances, plotting of the location of the monitoring well on a scaled site map, and the completion and filing of Indiana State Form No. 35680 to document the proper closure of each monitoring well. These well closure activities shall be performed by a licensed drilling contractor and supervised by an Indiana licensed professional geologist. All waste material generated during this closure activity shall be removed from the site and properly disposed.



6.11 Backfilling

All excavated areas resulting from the removal of contaminated soils and buried drums and/or tanks will be backfilled to pre-excavation grades with clean fill, such as crushed concrete, bricks, cinder blocks, imported aggregate materials, or uncontaminated soil.

All pits and basins on-site will also be filled with clean fill such as crushed concrete, bricks, cinder blocks, imported aggregate materials or uncontaminated soil.

6.12 Project Demobilization

6.12.1 Decontamination Pad

Upon the completion of the above scope of work, exclusive of the postclosure care effort described in Section 9.0, the decontamination pad will be decommissioned. The decommissioning will entail the pressure washing of the concrete surface and complete evacuation of the rinsate collection sump. The physical pad will be removed and utilized as a beneficial on-site fill.

6.12.2 Other Activities

The site field office trailer will be returned to the vendor in a clean condition. The potable water services and sanitary facilities will be removed from the site. All electrical and telephone connections will be terminated in a manner consistent with utility protocols. All residual trash and debris will be removed from the site and disposed of as a solid waste. The access gates will be locked and the site gate keys will remain in the custody of the OSC and the designated representatives of the PRP's.

7.0 PROJECT REPORTS

7.1 Monthly Reports

A monthly written progress report will be submitted to EPA concerning actions undertaken pursuant to the Order, beginning 30 calendar days after the date of EPA's approval of the Work Plan, until termination of the Order, unless otherwise directed in writing by the OSC. These reports shall describe all significant developments during the preceding period, including the work performed and any problems encountered, analytical data received during the reporting period, and developments anticipated during the next report period, including a schedule of work to be performed, anticipated problems, and planned resolutions of past or anticipated problems.

7.2 Final Report

Within 60 calendar days after completion of all removal actions required under the Order, the PRP's shall submit for EPA review a Final Report summarizing the actions taken to comply with the Order. The Final Report shall conform to the requirements set forth in Section 300.165 of the NCP, 40 C.F.R. § 300.165. The Final Report shall also include a good faith estimate of total costs incurred in complying with the Order, a listing of quantities and types of materials removed off-site or handled on-site, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destinations of those materials, a presentation of the analytical results of all sampling and analyses performed, and accompanying appendices containing all relevant documentation generated during the removal action (e.g., manifests, invoices, bills, contracts, and permits).

The Final Report shall also include the following certification signed by a person who supervised or directed the preparation of that report:

Under penalty of law, I certify that, to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, the information submitted is true, accurate, and complete.

7,3 Submission of Reports

All reports required by this Work Plan will be submitted by certified or express mail and will be directed to:

Mr. Steven J. Faryan
On-Scene Emergency Response Branch Coordinator
EPA, Region 5
77 West Jackson Boulevard
HSE2-5J
Chicago, Illinois 60604-3590

A copy of all submissions will also be sent to:

Ms. Constandina Dalianis Assistant Regional Counsel EPA, Region 5 77 West Jackson Boulevard 14J Chicago, Illinois 60604-3590

7.4 Record Retention, Documentation, Availability of Information

All documents and information, in the possession of their the PRP's or contractors, subcontractors or representatives, relating to work performed under this Order, or relating to the hazardous substances found on or released from the site, will be preserved for six (6) years following completion of the removal actions required by this Order. At the end of this six (6) year period and at least 60 days before any non-duplicative document or information is destroyed, the PRP's shall notify EPA that such documents and information are available to EPA for inspection, and upon request, shall provide the originals or copies of such non-privileged documents and information to EPA. In addition, the PRP's shall provide non-privileged documents and information retained under this Section at any time before expiration of the six (6) year period at the written request of EPA.

8.0 PROJECT SCHEDULE

The projected schedule for completing the tasks outlined and activities described within this Work Plan is included in Table 8-1. The PRP's agree to perform all requirements within the projected time limits, unless the performance is delayed by a force majeure. For purposes of this Work Plan, a force majeure is defined as any event arising from causes beyond the control of the PRP's or of any entity controlled by the PRP's, including but not limited to their contractors and subcontractors, that delays or prevents performance of any obligation within this Work Plan despite the PRP's best efforts to fulfill the obligation. Force majeure does not include financial inability to complete the work or increased cost of performance.

The PRP's shall notify EPA orally within 24 hours after the PRP's become aware of any event that the PRP's contend constitutes a force majeure, and in writing within seven (7) calendar days after the event. Such notice shall: identify the event causing the delay or anticipated delay; estimate the anticipated length of delay, including necessary demobilization and remobilization; state the measures taken or to be taken to minimize the delay; and estimate the timetable for implementation of the measures. The PRP's shall take all reasonable measures to avoid and minimize delay. Failure to comply with the notice provision shall be grounds for EPA to deny the PRP's an extension of time for performance. The PRP's shall have the burden of demonstrating by a preponderance of the evidence that the event is a force majeure, that the delay is warranted under the circumstances, and that best efforts were exercised to avoid and mitigate the effects of the delay.

If EPA determines a delay in performance of a requirement within this Work Plan is or was attributable to a force majeure, the time period for performance of that requirement shall be extended as deemed necessary by EPA, taking into account the length of the delay and necessary remobilization requirements. EPA's determination of whether a delay in performance is attributable to a force majeure and the length of the time period extension are both subject to the dispute resolution procedures in Section VIII of the Order. Such an extension shall not alter the PRP's obligation to perform or complete other tasks required by the Work Plan which are not directly affected by the force majeure.

PROJECT SCHEDULE

Final Phase Remediation Table 8-1

Page 1 of 1 2/17/99

	1999								2	000			2001				
WORK ITEM	1		2		3	1	4	1	2	3	3	4	1	2	3		4
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4. Work Plan preparation			++	+	\vdash	\Box	+			++	+1			++	† † †	+-	-
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3 Mobilze/set up office trailer	++-	+-+	+	+		$\dagger \dagger$	+		++	+	+-		111	+++	†+++	+	-
Establish site security																	
5. Establish utilities		Ц					i	4	Ш		П		444		\Box	11	Ц.
6. Purchase equipment/supplies		- -	-	+	-	\dashv	\dashv				- -		444		╂╫┼	+	-
7. Refurbish decontamination pad 8. Prepare Requests for Proposal	++-	-	++	+	+	+	+	++	+++	++	+	+1		++	+++	+	H
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b. Earthwork				I													
c. Soil boring	+ $+$ $+$ $+$	\sqcup	$\perp \downarrow$	1.	Ц.	11	\perp	11		\perp	$\perp \downarrow$	$\perp \!\!\! \perp \!\!\! \perp$			$\bot \bot \bot$	11	Ц
d. Tank cleaning/cutting work e. Hazcatting		\vdash	++	+	-	\vdash	+		$\vdash \vdash \vdash$	- - -	+	$\dashv \dashv$	+++		+++	4-1	├-
f. Lab Packs	+		+	+	+	++	-+-	++	H	++	+		+++	+++	+++	+	╁┼
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NVESTIGATION/INITIAL REMEDIAL ACTIVITIES 1. Inspect/sample tanks, drums & pits		+	إ_ل	/28			+	17	/3		┼┤			++-	╁╌┼╌┼	+	\vdash
Hazcatriab analyses and data interpretation		┝╌┞	++	720	+	H		++-	73	- - -	+-		╅┼	 	┼╌┼╌┼	++	H
3. Inventory contents/lable containers	+	H	++		+	11	11	11	$\dagger \dagger \dagger$	+	\top	\dashv	111		† † †	11	\vdash
Geophysical study																	
5. Secure lab packs		Н	11	\perp		11	44		111	44	\perp		+++	\Box	1-1-1	\sqcup	\perp
Asbestos assessment Lagoon sampling/treatability study	++-			╁	\vdash	H	+	++-	╁┼┼	++	+		+-+-		+++	+	H
8 Locate/inventory monitoring wells		十	-	+	H	+	+		┼┼┤		+	- -			+++	+	╁┼╴
Soil borings in the eastern third of property			\top	\top		\sqcap										77	
10. Cut/remove clean tanks				T		П										\Box	
11. Disposal site determinations		\sqcup	- -	-	4	\sqcup	- -		┼┼┼	+	11	+!	444	- -	$\{ \bot \}$	44	-
12. Obtain disposal permits for wastes 13. Remove/dispose of asbestos		\vdash	++	+		++	+	++-	$\vdash \vdash \vdash$	++	+			++	╂╌╂╌╂	┼┤	H
14 Demolish aboveground structures	- - -	$\vdash \vdash$	++	+	+	\forall	++	++	HH	+	+		+++	 	+++	+	\vdash
15. Remove/dispose of debris	11	Ħ	77		Ť	11	++	11			Ħ	\dashv	- - - -	111	$\dagger \dagger \dagger$	\top	\vdash
16. Close monitoring wells																	
17. Design containment barrier	+	\sqcup		1	1	\sqcup			$\sqcup \sqcup$		\perp	44		111	$\sqcup \sqcup$	11	
18. Secure drum materials		┞╌┞	+	- -	-	╀		+			-				╀╌┼╌┼	++	井
REMEDIATION ACTIVITIES	++-		++	╁	+	+	++	++4	/3	TT		1	2/22	1-1-1	+++	+1	-
Excavation of buried drums & tanks	+++	\vdash	+	\top	\vdash	††	+			++	++	ΤÏ		+++	† † † †	++	\vdash
2. Clean drums, tanks & pits						П											
3. Repack drum contents	$\perp \perp$		11	1		\sqcup	1			44	11	-	+++		$\downarrow \downarrow \downarrow$	$\downarrow \downarrow$	igspace
4. Excavate/stage contaminated soils		-		+	-	-					+				╁╁┼	41	- -
Stabilization/relocation of lagoons Install containment barrier		Н	++	+	+	╁┼	+	++	╁┼┼		+1	+	+++	+++	╁┼┼	+	╟
7. Remove/dispose of liquid/solid wastes		-	++	+	+	+	+	-+-	1-1-1	++	+	+	+++	+++	+++	++	\vdash
8. Cap lagoons			山			\prod				丁						\perp	
9 Backfill/grade site	\Box	LI	\prod	Д		П	$\perp 1$	Щ	Щ	\prod	П	П			Ш	П	
10. Decommision decon pad	+	$\vdash \vdash$	+	+	Ц.	+			$\vdash\vdash\vdash$		+	\dashv	+++		+ + +	4-1	- -
11. Terminate utilities 12. Demobilization		-	+	+	+	╁┼	+	++	+++	+	+-1			++	╁┼┼	+	H
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FINAL REPORT				_		1		1	<u> </u>	+	H					1	
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POST CLOSURE CARE																	

9.0 POST REMOVAL SITE CONTROL

For a period of one (1) year after the performance of the activities outlined in this Work Plan, or as otherwise directed by the OSC, post removal site control measures will be implemented. These measures will include maintaining the integrity of the security fence installation surrounding the CCCI site and denying access to the site by securely locking the entrance gates. Access keys will only be provided to the OSC and designated representatives of the PRP's.

On a quarterly basis, a representative of the PRP's will inspect the site to determine if the site security fence has been breeched or has deteriorated to the point of requiring repair and, to observe if any unauthorized circumstances have occurred which may have a significant adverse environmental impact on the CCCI site.

Any noteworthy observations will be reported in writing to the OSC or his designated representative within seven (7) days.

APPENDIX A - HAZCAT PROCEDURES

The following reference listed identifies the methodology and protocol that will be used to Hazcat the unknown drummed materials at the site.

- Compatibility Field Testing Procedures for Unidentified Hazardous Wastes, R. Turpin, et., al.
- Chemical Characterization and Bench-Scale Compositing of Hazardous Materials for Disposal Considerations, N. Graves, et., al.
- Hazardous Wastes Compatibility Chart, U.S. EPA Region V, et., al.
- Compatibility Testing and Procedural Outline, R. Weston, Inc., U.S. EPA Region V.
- Summary of Hazard Categorization (Hazcat) Field Chemistry for First Responders, E & E and U.S. EPA Region V.
- Materials Handling Decision Diagram Management of Uncontrolled Hazardous Waste Sites, D. Pyles, et., al. .

PURPOSE: The purpose of this policy is to provide CCCI site supervision and workers with

information concerning the identification, hazards, and requirements for the safe

entry into confined spaces that exist at the CCCI site.

POLICY: A safe and healthful workplace will be provided for all workers and contractors at

the CCCI site. It is the policy of the PRP group and the PSO to provide requirements for the evaluation and safe entry into all confined spaces likely to be

encountered during CCCI site operations.

PROCEDURES:

▼ Definitions:

"Confined Space" means any space that has limited or restricted means of entry/exit; is large enough for a person to enter; is not designed for continuous occupancy.

"Non-Permit Required Confined Space" means a confined space that does not contain or, with respect to atmospheric hazards, have the potential to contain any hazard capable of causing death or serious physical harm.

"Alternate Procedure Confined Space" means a confined space that contains only a hazardous atmosphere, or the potential for a hazardous atmosphere, that can be controlled through the use of forced air ventilation used prior to, and during, the confined space entry operation. Alternate procedure confined spaces may not contain hazards other than that of a hazardous, or potentially hazardous, atmosphere.

"Permit-Required Confined Space" means a confined space that contains, or has known potential to contain, a hazardous atmosphere; and has the potential for engulfing or entrapping the entrant; and/or has an internal configuration that could trap or asphyxiate the entrant; and/or contains other recognized safety or health hazards.

"Hazardous Atmosphere" means the atmosphere within a confined space that contains less than 20.9% oxygen, presence of flammable gases or vapors in excess of 10% of the lower flammable limit of the flammable substance present, or the presence of toxic gases, vapors, dusts or mists in excess of the materials' permissible exposure limits. Examples of toxins commonly found in confined spaces include vapors or gases that may be present in laboratories within buildings, carbon monoxide, etc.

"Entry Supervisor" means the employee responsible for evaluating and authorizing all confined space entry operations and for signing permits for entries into permit-required confined spaces. This employee has the authority to terminate all confined space entries if conditions in the confined space change or present an increased hazard to the entrants. In most situations, the contractor's supervisor will perform the duties of entry supervisor.

"Isolation" means the process used to reduce or eliminate hazards within a confined space. Also referred to as Lockout & Tagout, hazards such as the flow of water can be eliminated by placement of plugs, closing of valves, blanking of piping, etc. Activation of pumps and other mechanical equipment, that can contribute to or increase the hazards within a space, can be protected through the opening of an electrical switch or other isolating method such as removal of fuses or electrical leads to the motor.

▼ Confined Space Entry Evaluation:

A preliminary evaluation of the types of confined spaces at the CCCI site has been conducted. This evaluation has revealed that the confined spaces to be entered can be classified as non-permit, alternate procedure, and permit-required confined spaces. The types of confined spaces entered by employees include all process tanks, pits, storage tanks, and excavations in contaminated soil. The PSO, designated backup PSO, or OSC may determine that additional confined spaces exist at the site. These spaces have limited means of entry and exit, are large enough to enter, and are not designed for continuous employee occupancy. Therefore, these spaces described above meet the definition of a confined space.

▼ Non-Permit Confined Spaces:

Evaluation and subsequent determination of a non-permit confined space may be based on a knowledge of the space concerning the potential that exists for a hazardous atmosphere, or other hazards, that may be present in the space. Generally, a determination that a non-permit confined space exists *MUST* be based upon atmospheric testing conducted using a properly calibrated gas detector and the verification that no other hazards exist within the confined space. Other hazards may include additional potential hazards such as engulfment, entrapment, drowning, exposure to moving or energized electrical equipment, etc. In some limited situations, non-permit confined spaces may be determined by a specific knowledge of the confined space and the potential for atmospheric hazards.

It must be demonstrated that *no potential* for a hazardous atmosphere exists in the confined space. The types of confined spaces at the CCCI site either contain, or have the potential to contain, a hazardous atmosphere or other additional hazards, and will be required to be treated as alternate procedure or permit required confined spaces according to the procedures that follow. This includes all excavations in which workers must enter the excavation to sample or perform other activities. If the entry supervisor is unsure of the status, or potential status, of any confined space that needs to be entered, then atmospheric testing must be performed to verify that a space is truly a non-permit confined space.

Non-Permit Confined Space Entry Procedures:

Physical Protection of Work Area:

The entry supervisor will ensure that employees are protected from other activity in the work area by guarding the area where confined space entry activities are conducted.

Safe Removal of Covers:

Employees engaged in the removal of any covers to the confined space shall use caution in the removal of the cover to avoid creating sparks which could cause an explosion of gases or vapors contained within the space; or removal of a cover from a confined space which is under pressure. Covers may be heavy and may require the assistance of another employee to avoid injuries caused as a result of lifting or carrying a cover.

Guarding & Posting Signs at Entry to Confined Space:

The entry supervisor shall ensure that a railing, temporary cover, or other barrier is placed near or around the entrance or opening to protect employees from falling through the opening and to protect entrants from materials and debris that could fall into the opening during the entry.

Atmospheric Testing:

Employees trained in the use of atmospheric testing instrumentation shall test the atmosphere of the confined space prior to entry to determine the presence of a hazardous atmosphere. Contaminants or potential hazards within the confined space shall be tested in the following order:

- 1. Oxygen (% oxygen)
- 2. Flammable Gas or Vapor (% of LEL)
- 3. Toxic Gases or Vapors (See Table 5-1 for list of PEL's)

Instrumentation should be calibrated by a properly trained person prior to use each day, or according to the manufacturer's instructions.

For purposes of entry into non-permit confined spaces, the atmosphere must contain 20.9% oxygen, 10% lower explosive limit for flammables, and concentrations or toxic substances that are less than the PEL or TLV. Readings on most meters vary and fluctuate slightly, but in no case should entry be permitted if instrumentation indicates that a hazardous atmosphere may be present.

If a hazardous atmosphere exists after testing the confined space, the entry supervisor shall classify the space as an alternate procedure or permit-required confined space using the procedures that follow.

Lock-out & Tag-out:

Prior to any entry into a confined space, the entry supervisor shall ensure that all sources of energy or material flow into the confined space have been identified. The entry supervisor shall attempt to determine all possible sources of energy and material flow.

Once these sources of energy or material flow have been identified, the entry supervisor shall take the necessary precautions to isolate, remove, or lock out such potentially hazardous sources from the confined space. Such actions may involve the closing and locking of valves connected to the confined space, placement of plugs or blocks in piping, the disconnection of piping and blanking of piping connected to the confined space, the opening and locking of switches where electrically operated devices are located within a confined space or operate pumps that could flow materials into the confined space, etc.

Confined Space Re-Classification:

If conditions change within the space that increase the hazard to the entrants, the entry supervisor shall terminate the entry and re-classify the space as either alternate procedure confined space or full permit-required confined space.

▼ Alternate Procedure Confined Spaces:

Permit-required confined spaces may be classified as an alternate procedure permit-required confined space if the entry supervisor determines that the only hazard with the confined space is that of a hazardous, or potentially hazardous, atmosphere. No other hazards, such as the hazard of engulfment or the hazards of moving equipment can exist in the space classified as an alternate procedure confined space. Employees within alternate procedure confined spaces must be capable of self-rescue. If employees within a space are not capable of self-rescue, the space shall be classified as a permit-required confined space. Examples of typical alternate procedure confined spaces include:

- Entry into process tanks where the following systems have been locked/tagged out:
 - All piping systems that can flow into the tank
 - All mechanical equipment including blenders and mixers in the tank
- Entry into excavations where ventilation can eliminate a hazardous atmosphere and no other additional hazard exists.

If the entry supervisor determines that a confined space has only a hazardous atmosphere, or potential for hazardous atmosphere, then the following procedure shall be used prior to entry by any employee:

Physical Protection of Work Area:

The entry supervisor will ensure that employees are protected from other activity in the work area by guarding the area where confined space entry activities are conducted.

Safe Removal of Covers:

Employees engaged in the removal of any covers to the confined space shall use caution in the removal of the cover to avoid creating sparks which could cause an explosion of gases contained within the space; or removal of a cover from a confined space which is under pressure. Covers may be heavy and may require the assistance of another employee to avoid injuries caused as a result of lifting or carrying a cover.

Guarding & Posting Signs at Entry to Confined Space:

The entry supervisor shall ensure that a sign "DANGER - PERMIT REQUIRED CONFINED SPACE, DO NOT ENTER" is posted near the entrance to the confined space. The entry supervisor shall also ensure that a railing, temporary cover, or other barrier is placed near or around the entrance or opening to protect employees from falling through the opening and to protect entrants from materials and debris that could fall into the opening during the entry.

Atmospheric Testing:

Atmospheric testing should **ALWAYS** be performed prior to ventilation of the confined space. The entry supervisor must know if hazards existed in the space prior to ventilation in order to anticipate increases in the hazards within the space.

Employees trained in the use of atmospheric testing instrumentation shall test the atmosphere of the confined space prior to entry to determine the presence of a hazardous atmosphere. Contaminants or potential hazards within the confined space shall be tested in the following order:

- 1. Oxygen
- 2. Flammable Gas or Vapor
- 3. Toxic Materials

Instrumentation should be calibrated by a properly trained person prior to use each day, or according to the manufacturer's instructions.

For purposes of entry into alternate permit confined spaces, the atmosphere must contain 20.9% oxygen, 10% lower explosive limit for flammables, and concentrations or toxic substances that are less than the PEL or TLV. Readings on most meters vary and fluctuate slightly, but in no case should entry be permitted if instrumentation indicates that a hazardous atmosphere may be present.

There may be no hazardous atmosphere within the space whenever any employee is inside the confined space. If a hazardous atmosphere is detected while an employee is in the space, the entrants shall be ordered to leave the space and the confined space must be re-classified as a full permit-required confined space by the entry supervisor. The atmosphere within the space must be continuously monitored throughout the entry to ensure that the continuous forced air ventilation is preventing the accumulation of a hazardous atmosphere. Continuous monitoring may be conducted from either inside or outside of the space, preferably outside the space, by an authorized attendant.

Lock-out & Tag-out:

Prior to any entry into a confined space, the entry supervisor shall ensure that all sources of energy or material flow into the confined space have been identified. This will be accomplished by reviewing plant diagrams. If drawings are not available, the entry supervisor shall attempt to determine all possible sources of material flow.

Once these sources of energy or material flow have been identified, the entry supervisor shall take the necessary precautions to isolate, remove, or lock out such potentially hazardous sources from the confined space. Such actions may involve the closing and locking of valves connected to the confined space, placement of plugs or blocks in piping, the disconnection of piping and blanking of piping connected to the confined space, the opening and locking of switches where electrically operated devices are located within a confined space or operate pumps that could flow materials into the confined space, etc.

Ventilation:

Continuous, forced ventilation must be provided for entry into alternate procedure confined spaces. Employees may not enter the space until the forced air ventilation has eliminated the hazardous atmosphere. Forced air ventilation must be designed to ventilate the immediate areas where employees are working within the space and must continue until all employees have left the space.

The entry supervisor should survey the work area to determine the best location for placement of ventilation equipment. The ventilator should be placed far enough away from the entrance to the

confined space to prevent the recirculation of gases and vapors back into the space. Care must also be taken to locate the ventilator upwind of any equipment that produces exhaust and carbon monoxide.

If any liquids have been removed from the confined space, potentially hazardous vapors and gases must be removed prior to entry by providing adequate ventilation of the confined space. Caution must be taken during the removal and ventilation of confined spaces so as not to create a greater hazard. Removal and ventilation of flammable liquids and vapors can create static charges which can ignite flammable vapors inside or outside the space.

Permit Completion:

The entry supervisor shall prepare and sign a permit authorizing entry into an alternate permitrequired confined space. This permit shall be kept near the entrance to the confined space. The permit shall contain results of initial atmospheric testing, a description of the ventilation system used, isolation methods used to eliminate the hazard of mechanical or electrical equipment or flow of materials into the space. The permit is valid only for the duration of the work shift or 24 hours, whichever is shorter. The permit system at the end of this procedure shall be used.

Attendants:

Attendants are not required during entry into alternate procedure confined spaces, however, the entry supervisor may require the use of an attendant if rescue considerations from the space indicate the potential need for an attendant. Such considerations may include the depth of the space being entered, the need to communicate to other employees outside the confined space, and the need for a person to be available to hand materials and equipment to the entrants.

Training:

The entry supervisor shall ensure that all entrants have been properly trained in the hazards of the confined space, methods used to evaluate atmospheric conditions within the alternate procedure confined space, emergency procedures to be used in the event evacuation from the space becomes necessary and the use and application of this procedure and permit system.

Confined Space Re-Classification:

If conditions change within the space that increase the hazard to the entrants, the entry supervisor shall terminate the entry and re-classify the space as a full permit-required confined space.

▼ Permit-Required Confined Spaces:

If the entry supervisor determines that the hazards within the confined space cannot be controlled through the use of forced air ventilation, or that additional non-atmospheric hazards exist within the space, then the confined space shall be handled as a permit-required confined space. If the entry supervisor determines that an alternate procedure confined space prohibits employees from self-rescue, the space shall be classified as a permit-required confined space. Examples of permit-required confined spaces include:

- Entry into tanks with life threatening atmospheres
- Entry into non-isolated manholes
- Entry into excavations where a hazardous atmosphere exists and flow of water or other material into the excavation creates a drowning hazard
- Entry into any process tank where piping and material flow has not been isolated and locked out

If the entry supervisor determines that a permit-required confined space exists, the following procedures shall be followed prior to entry by any employee into the permit-required confined space:

Physical Protection of Work Area:

The entry supervisor will ensure that employees are protected from other activity in the work area by guarding the area where confined space entry activities are conducted.

Safe Removal of Covers:

Employees engaged in the removal of any covers to the confined space shall use caution in the removal of the cover to avoid creating sparks which could cause an explosion of gases contained within the space; or removal of a cover from a confined space which is under pressure. Covers may be heavy and may require the assistance of another employee to avoid injuries caused as a result of lifting or carrying a cover.

Guarding & Posting Signs at Entry to Confined Space:

The entry supervisor shall ensure that a sign "DANGER - PERMIT REQUIRED CONFINED SPACE, DO NOT ENTER" is posted near the entrance to the confined space. The entry supervisor shall also ensure that a railing, temporary cover, or other barrier is placed near or around the entrance or opening to protect employees from falling through the opening and to protect entrants from materials and debris that could fall into the opening during the entry.

Atmospheric Testing:

Atmospheric testing should **ALWAYS** be performed prior to ventilation of the confined space. The entry supervisor must know if hazards existed in the space prior to ventilation in order to anticipate increases in the hazards within the space.

Employees trained in the use of atmospheric testing instrumentation shall test the atmosphere of the confined space prior to entry to determine the presence of a hazardous atmosphere. Contaminants or potential hazards within the confined space shall be tested in the following order:

- 1. Oxygen
- 2. Flammable Gas or Vapor
- 3. Toxic Materials

Instrumentation should be calibrated by a properly trained person prior to use each day, or according to the manufacturer's instructions.

For purposes of entry into permit-required confined spaces, the atmosphere must contain 20.9% oxygen, 10% lower explosive limit for flammables, and concentrations or toxic substances that are less than the PEL or TLV. Readings on most meters vary and fluctuate slightly, but in no case should entry be permitted if instrumentation indicates that a hazardous atmosphere may be present.

If the concentration of oxygen cannot be maintained at 20.9% or the concentrations of toxic gases and vapors cannot be reduced to levels below the PEL or TLV, workers may enter the permit-required confined space with self-contained breathing apparatus or air-supplied respirator with emergency escape air bottle. There may be no hazardous atmosphere within the space unless the employee uses an air line respirator equipped with an emergency escape bottle. Unless directed by the PSO, designated backup PSO, or OSC, it is not permissible for a worker to enter a space in which a flammable atmosphere is present.

If a hazardous atmosphere is detected while an employee is in the space, the entrants shall be ordered to leave the space until the hazardous atmosphere within the space is eliminated through increased ventilation or isolation methods. The entry supervisor must verify that the hazardous atmosphere has been eliminated through additional atmospheric testing that is documented on the permit form.

The atmosphere within the space must be continuously monitored throughout the entry to ensure that the continuous forced air ventilation is preventing the accumulation of a hazardous atmosphere. Continuous monitoring may be conducted from either inside or outside of the space, preferably outside the space, by an authorized attendant.

Lock-out & Tag-out:

Prior to any entry into a confined space, the entry supervisor shall ensure that all sources of energy or material flow into the confined space have been identified. This will be accomplished by reviewing plant diagrams and maintenance instructions. If drawings are not available, the entry supervisor shall attempt to determine all possible sources of energy and material flow.

Once these sources of energy or material flow have been identified, the entry supervisor shall take the necessary precautions to isolate, remove, or lock out such potentially hazardous sources from the confined space. Such actions may involve the closing and locking of valves connected to the confined space, placement of plugs or blocks in piping, the disconnection of piping and blanking of piping connected to the confined space, the opening and locking of switches where electrically operated devices are located within a confined space or operate pumps that could flow materials into the confined space, etc.

Ventilation:

Continuous forced ventilation must be used for entry into permit-required confined spaces, except where the use of such ventilation creates a greater hazard. Ventilation may also not be needed when workers use SCBA or supplied air respiratory protection when entering and working in confined spaces. Except for the situations above, workers may not enter the space until the forced air ventilation has eliminated the hazardous atmosphere. Forced air ventilation must be designed to ventilate the immediate areas where workers are within the space and must continue until all workers have left the space.

The entry supervisor should survey the work area to determine the best location for placement of ventilation equipment. The ventilator should be placed far enough away from the entrance to the confined space to prevent the recirculation of gases and vapors back into the space. Care must also be taken to locate the ventilator upwind of any equipment that produces exhaust and carbon monoxide.

If any liquids have been removed from the confined space, potentially hazardous vapors and gases must be removed prior to entry by providing adequate ventilation of the confined space. Caution must be taken during the removal and ventilation of confined spaces so as not to create a greater hazard. Removal and ventilation of flammable liquids and vapors can create static charges which can ignite flammable vapors inside or outside the space.

Attendants:

Attendants are required to be present at all times during permit-required confined space entries. The entry supervisor shall ensure that the primary duty of the attendant(s) is the monitoring of entrants. Attendants can also act as helpers by handing tools, equipment, and materials to

workers within the space, as long as those secondary responsibilities do not distract or remove the attendants from the confined space entrance for more than a few moments.

The attendants must be trained in the rescue procedures that may become necessary during the confined space entry. Wherever possible, entrants should attempt to use non-entry rescue techniques to remove entrants from the space. These methods are described below. If necessary, properly trained entrants may enter the space using air-line respirators with escape bottles to remove victims from within the space.

Communications:

The entry supervisor shall ensure that attendants can effectively communicate with entrants in the confined spaces. Attendants should maintain visible and audible contact with the entrants. Radios may be required if the attendants cannot effectively communicate with entrants.

Emergency Equipment & Rescue:

The entry supervisor shall ensure that attendants are instructed to never enter the confined space to attempt a rescue, unless the attendants have been properly trained, equipped and drilled in confined space entry rescue.

The entry supervisor shall ensure that adequate emergency rescue equipment is available and setup prior to entry in the confined space. When trained rescue personnel are not available for rescue within the confined space, the entry supervisor shall ensure that each entrant is equipped with a full body harness and a "D" ring located at the back near the shoulder level and that the end of the retrieval line is securely attached to an approved winch/tripod for rescue from vertical spaces greater than 5 feet deep.

Any full body harness or mechanical retrieval device which is used to arrest the fall of an employee being lowered into, or removed from a confined space, shall be removed from service immediately and tested and re-certified by the manufacturer.

If non-entry rescue from a confined space is not possible, the entry supervisor shall ensure that at least two attendants are available to perform entry rescue. If it becomes necessary to enter the confined space to rescue the entrant, one of the attendants will wear an air line respirator with escape bottle, or self-contained breathing apparatus, and enter the space to rescue the entrant.

The attendant shall rescue the entrant by assisting the entrant out of the space, if the entrant is conscious and capable of being assisted or through the use of a body harness, wristlets, or other extrication equipment necessary to remove the entrant from the space. The second attendant shall remain at the entrance to the confined space and monitor the activities of the rescuer and the victim. If the rescuer in the confined space becomes a second victim, the second attendant shall summon outside assistance by contacting the PSO or designated back-up PSO.

Permit Completion:

The entry supervisor shall prepare and sign a permit authorizing entry into a permit-required confined space. This permit shall be posted at the portal to the confined space. The permit shall contain results of initial atmospheric testing, a description of the ventilation system used, isolation methods used to eliminate the hazard of mechanical or electrical equipment or flow of materials into the space. The permit is valid only for the duration of the work shift or 24 hours, whichever is shorter. The permit system at the end of this procedure shall be used.

Training:

The entry supervisor shall ensure that all entrants and attendants have been properly trained in the hazards of the permit-required confined space, methods used to evaluate atmospheric conditions within the confined space, emergency procedures to be used in the event evacuation from the space becomes necessary, and the use and application of this procedure and permit system. The entry supervisor shall also ensure that entry rescue is practiced at least annually and that all personnel involved in confined space entry have received proper instruction, training, and certification in first aid and cardio- pulmonary resuscitation.

Confined Space Re-Classification:

If conditions change within the space which increase the hazard to the entrants, the entry supervisor shall terminate the entry and re-evaluate entry into the confined space. Examples of conditions which could cause termination of entry could be uncontrolled atmospheric hazards detected by continuous monitoring or the existence of additional hazards such as the rise in the level of water or materials in the space which present a hazard to the entrant.

Completion of Confined Space Entry Operations:

Upon completion of all work within confined spaces, the entry supervisor will ensure that the following actions have been completed:

- 1. All entrants have safely evacuated the confined space
- 2. Debriefing entrants and attendants related to conditions within the space
- 3. All tools and equipment have been removed from the confined space
- 4. The confined space has been properly closed or secured
- 5. The permit form has been canceled and signed
- 6. The canceled permit is returned to the PSO for filing

Confined Space Entry Program

▼ Confined Space Entry Procedure Review:

If the entry supervisor discovers at the conclusion of the entry that the procedure does not fully address all hazards revealed during the entry, the entry supervisor should contact the PSO or designated back-up PSO immediately. A review and revision of the procedure will be completed prior to the next CCCI site confined space entry.

Appendix B 13

CCCI Site Confined Space Evaluation & Entry Permit

<i>D</i> ate:	·····		
_ocation:			
Type of Confine	d Space:		
[] Pit:	[] Tank:	[] Manhole:	[] Excavation:
[] Isol [] Nor	ated [] Isola n-isolated [] Non	ated [] Stor i-isolated [] San	m itary
Description of	f work to be performe	ed:	
ame(s) of Entra	ants:	Name(s) of	Attendants:
			
		<u> </u>	
onfined Space	Air Monitoring:		
Test #1	Test #2	Test #3	Test #4
Time:	Time:	Time:	Time:
Oxy:	Oxy:	Oxy:	Oxy:
%LEL: H2S:	%LEL: H2S:	%LEL: H2S:	%LEL: H2S:
CO:	П2S СО:	CO:	п25. СО:
.	.	00	
Gas Detector	Serial #: I	Date Calibration Last	Checked:
ype of Confine	d Space Entry:		
[] Non-Perm	it []Alternate F proceed	Procedure: []Pe	ermit-Required
, ,	entry) [] With	n attendant [ation used] Isolation used

Ventilation:							
[] Yes - Ventilation	[] No - Ventilation						
[] Continuous forced air [] Exhaust ventilation	Explain why:						
Rescue Equipment:							
[] Non-Entry Rescue:	[] Entry Rescue:						
[] Tripod & winch [] Full body harness [] Radio or cell phone	 [] Air-line respirator [] Adequate air supply [] Life-line for rescue [] Tripod & winch for removal [] Radio or cell phone [] Second attendant/rescuer 						
Emergency phone # :							
Entry Authorization:							
confined space to be entered. B selected, and my knowledge	I acknowledge that I have thoroughly reviewed the hazards present in the confined space to be entered. Based upon those hazards, the safety procedures selected, and my knowledge of the confined space and the work to be performed, I authorize the above individuals to work in the confined space.						
Name of Entry Supervisor	Signature						
Permit Cancellation:							
Date Cancelled:	Time Cancelled:						
Permit Cancelled: [] Job completed	[] Hazards identified [] End of day						
Permit Cancelled By:							
Name of Entry Supervisor	 Signature						
maine of Entry Supervisor	Signature						

Respiratory Protection Program

PURPOSE: To provide requirements for the selection, use, and maintenance of respiratory

protection equipment used to protect workers from harmful concentrations of vapors, mists, dusts, gases & fumes generated during operations performed by

CCCI site workers.

POLICY: When engineering controls, such as natural or mechanical ventilation, are not

feasible to control exposure to airborne contaminants, appropriate respiratory protective equipment shall be provided, used and maintained to prevent exposure of workers to unsafe levels of airborne contaminants generated during site

operations.

PROCEDURES:

▼ Respirator Selection:

Respirators may be required to protect employees from exposure to:

- Nuisance dust encountered during normal operations
- Concentrations of hazardous substances listed in Table 5-1 of the Health and Safety plan
- Hazards associated with entry into confined spaces
- Other hazards identified by the PSO or designated back-up PSO

For exposure to products obtained and used by contractors at the site, material safety data sheets will be reviewed as new supplies are purchased to evaluate possible exposure to new airborne contaminants. If it is discovered that potential over-exposure to a new airborne contaminant exists, the proper respirator cartridge shall be obtained to protect against the hazard, or air-supplied respiratory protective equipment shall be used.

▼ Operations Where Respirators May Be Required To Be Used:

Respirators may need to be worn during the following operations, depending on the amount of air contaminant generated during the operation:

- Operations that generate dust or dusts containing hazardous substances
- Site sampling activities
- Handling of drums
- Cleaning of tanks
- Removal of asbestos containing materials
- Demolition of structures
- Excavation of contaminated soils
- Other operations that generate airborne vapor, gas, fume, or particulate

Respiratory Protection Program

▼ Medical Evaluations:

No employee will be assigned a respirator unless they have first been evaluated by a physician to determine if they are physically capable of performing the work and using the prescribed respiratory protective equipment. The physical shall include spirometry, in addition to medical questions related to use of a respirator. The medical evaluation and clearance shall be performed by a physician selected by the contractor and shall be part of the annual hazardous waste worker physical evaluation.

▼ Facial Hair Policy:

Facial hair prevents an effective face to facepiece seal of both negative and positive pressure respiratory protective equipment. This condition can allow potentially harmful vapors, mists, fumes, and dusts to be inhaled while the respirator is worn. Therefore, CCCI site workers will not be allowed to use a respirator if they have a beard, sideburns, or mustache that interferes with the seal of the respirator. This policy only applies to those tasks that involve the required use of a respirator. Workers that are instructed to perform work requiring the use of a respirator and that have a beard which interferes with the seal of the respirator, will be instructed to shave, will be assigned other work not involving the use of a respirator or asked to leave the site.

▼ Assignment, Maintenance, and Cleaning of Respirators:

Each worker that will be using a respirator to protect against inhalation of potentially hazardous airborne contaminants, shall be assigned a respirator. That worker shall be responsible for periodically cleaning and disinfecting the respirator. No worker shall perform repairs or maintenance on any respirator. Defective or malfunctioning respirators must be returned to the supervisor for a replacement.

Each worker is responsible for thoroughly cleaning and properly storing their respirator. All cartridges should be removed from the respirator prior to cleaning. After use, respirators should be cleaned in warm soapy water, rinsed, allowed to dry, and stored in a plastic bag. No solvent or abrasives should be used to clean the respirator. Special care should be taken to prevent damage to the lens of a full-face respirator. The lens of a full-face respirator should be cleaned and dried using a soft cloth.

▼ Fit Testing:

Prior to the assignment of the respirator, each worker shall be properly fit tested to ensure an adequate face to facepiece seal. The worker shall put the respirator on and adjust it to obtain the best seal possible. Fit testing will be conducted annually, or any time the worker believes an adequate seal is not being maintained.

Respiratory Protection Program 🐉 🐷

After the respirator has been properly adjusted, the respirator shall be tested for adequate seal using an irritant smoke tube test performed in a hood by passing the smoke tube around the perimeter of the respirator. The employee will be required to move his head around, back and forth, and required to speak during the smoke tube test. If the employee indicates the presence of the irritant smoke the respirator shall be re-adjusted to obtain a more adequate seal or replaced with another respirator of a different size. The respirator shall not be assigned until an adequate seal can be obtained.

▼ Worker Training:

One of the most important elements of the CCCI site respiratory protection program is the proper training of its workers that use respiratory protective equipment. The CCCI site training program will address the following areas:

- The nature and danger of the airborne contaminant for which respiratory protective equipment will be used.
- A discussion of the possible health effects, or signs and symptoms of exposure the worker may experience if the respirator is not used.
- Instruction of the different parts of the respirator including exhalation and inhalation valves, straps, facepiece, filter cartridge, gaskets, etc.
- Instruction in the proper method of donning (putting on) and adjusting the respirator.
- Instruction in obtaining a proper fit of the respirator after initial fit testing has been performed. The two methods of checking proper fit shall be:
 - Negative Pressure Test The worker shall don the respirator and adjust it to obtain
 the best fit. The worker shall then place their hands over the filter cartridge(s) to
 prevent the flow of air through the cartridge and inhale. If a negative pressure can
 be obtained, the respirator has an effective seal and the exhalation valve is
 functioning properly.
 - Positive Pressure Test After the worker performs the negative pressure test above, they should place their hand over the exhalation valve and exhale. If a resistance to exhalation can be detected, the inhalation valves are functioning properly. This test DOES NOT provide evidence of a proper fit.

Respiratory Protection Program

- Training in the proper cleaning and inspection of respirators after use. Each worker shall be instructed to do the following after each use:
 - Clean the respirator after each use with soap and water. DO NOT use a solvent to clean the respirator, it could damage the valves and cause it to malfunction during its next use.
 - Inspect the respirator and valves for damage after each use and cleaning. Valves should be inspected for damage such as tears or warping. Damaged respirators should be returned to a supervisor for replacement.
 - Properly store the respirator by placing it in a plastic bag and then in an area free from possible damage by tools, equipment, etc.
- Instruction in methods to determine when a filter cartridge is no longer functioning properly or filtering the contaminant for which it was intended. The methods used to determine if a cartridge is no longer functioning properly include:
 - Resistance To Breathing If the worker experiences increased difficulty in breathing detected by an increased resistance in the respirator, this is an indication that the filter cartridge is fouled and ready to be replaced. This is the primary method used to determine when a HEPA filter cartridge is in need of replacement.
 - Smelling Of Contaminant* If the worker can smell, or taste, the contaminant being filtered and the respirator has been properly fitted, this is an indication that the filter cartridge media is fouled and ready to be replaced.
- * Relying solely on smelling of the contaminant is not always a reliable method of detecting expiration of the filter cartridge. Some chemicals have odor thresholds that occur at levels much higher than permissible exposure limits, thus exposing the employee to harmful levels before detection can occur. Additionally, some chemicals have poor warning properties as they cannot be detected by sense of smell. In operations involving the use of such chemicals, other methods such as routine replacement of cartridges should be used to ensure proper function of the respirator cartridge media.
- ** Air purifying respirators must **NEVER** be used in atmospheres which are immediately dangerous to life and health (IDLH). Such conditions include:
 - Oxygen deficient atmospheres
 - Atmospheres in which the concentration of air contaminant is at a level that would be lethal upon failure of respiratory protective equipment
 - For protection against hydrogen cyanide and carbon monoxide

Respiratory Protection Program

▼ Auditing Effectiveness Of Respiratory Protection Program:

The PSO or designated backup PSO shall periodically audit the effectiveness of the respiratory protection program by ensuring that workers are properly using the respirators assigned to them. This check should include if respirators are being donned correctly, adjusted properly, checked for proper seal, cartridges replaced when expired, properly cleaned, properly inspected, and properly stored.

▼ Responsibilities:

- Workers Site workers are responsible for using their assigned respirators when
 performing operations that may produce concentrations of airborne contaminants that
 exceed permissible exposure limits. Workers are also responsible for properly cleaning
 and maintaining respirators as trained. Failure to use respirators when required, or abuse
 of assigned respiratory protective equipment, can result in disciplinary action.
- Supervisors Supervisors are responsible for ensuring that workers are properly using and caring for their respiratory protective equipment by conducting periodic audits and inspections.

CCCI Site Respirator Fit Testing Program

Date:	Name:		
Job:			
Respirator Assigned:	Half-Face Respirator:	· · ·	Size:
	Full-Face Respirator:		Size:
Filter Cartridge Assigned:	Organic Vapor:	HEPA:	Other:
Worker Conditions & Fit To	esting:		
Worker free of any condition such as beard, dentures, factors	• •	an effective f	ace to facepiece seal
Yes: N	lo:		
Description:			
Worker successfully fitted smoke or isoamyl acetate (b	• • • • • • • • • • • • • • • • • • • •	no evidence	of reaction to irritant
: Yes: N	lo:		
Explain:			
I acknowledge that I have have been properly fitted that and/or isoamyl acetate (bathe presence of the irritant and speak while wearing the second sec	with the respirator throanana oil) test. During t smoke, or banana o	ough the use g the test, I v	of an irritant smoke vas unable to detect
Signature		_	

CCCI Site Respiratory Protection Training Acknowledgment

Date:
Name:
Job:
I acknowledge that I have been provided with training and instruction in the proper use, donning, limitations, fitting, inspection, and cleaning of the respirator(s) assigned to me. I have been provided with a written copy of the CCCI Site Respiratory Protection Program. I have been instructed to have the respirators available for times that they may be used in my work.
I recognize the hazards of airborne contaminants that may be present in my work area or job site, and that the use of respiratory protection is designed to protect me from those harmful exposures. I have also been instructed to recognize when to change cartridges and when to recognize when components of the respirator may be defective. I further understand that failure to use respiratory protection when instructed is a serious safety violation and that I may be subject to disciplinary action.
Signature

Reporting & Investigating Injuries & Injury Management

PURPOSE: To provide requirements and guidelines for the treatment, investigation, and

reporting of all occupational injuries and illnesses and to provide CCCI site management and supervision with the guidelines necessary to locate treatment for injuries and to return injured workers to full or restricted work as soon as possible

following an occupational injury.

POLICY: It is the policy of the CCCI site management to require the immediate treatment,

investigation, and reporting of all accidents, injuries, and job related illnesses involving site workers. Failure to comply with this procedure can result in

disciplinary action.

PROCEDURE:

▼ Treatment Of Occupational Injuries:

Life Threatening or Serious Injuries:

All life threatening or serious injuries involving a site worker require the immediate notification of the local ambulance service. Those employees or persons in the area that are trained in CPR or first aid may provide assistance in sustaining the injured employee until an ambulance and trained rescuers arrive.

Once emergency services have been summoned, a supervisor must be contacted and notified of the emergency. The PSO or designated backup PSO will arrange for a supervisor or contractor's supervisor to go to the hospital where the injured worker has been taken to determine the status of the injured or ill employee.

The designated supervisor will determine if the injured worker's family has been contacted regarding the emergency. The supervisor or manager shall either contact the injured worker's family, or arrange for hospital staff to make the contact.

Non-Life Threatening or Non-Serious Injuries:

In the event a site worker receives an injury that requires medical treatment or evaluation, that worker shall be taken to the nearest designated medical clinic or hospital. The worker must never be allowed to transport himself, or arrange for transportation, to the clinic for initial treatment or evaluation.

If necessary, the designated supervisor may need to arrange for transportation of the injured worker back to work or to his home.

Appendix D 1

Reporting & Investigating Injuries & Injury Management

▼ Notification:

Workers' Responsibility:

The first priority in the event of an injury is to ensure that the injured worker receives the appropriate first aid or medical treatment. Reporting activities shall only be initiated once appropriate medical treatment has been obtained.

It is the responsibility of all site workers to immediately report to their supervisor the occurrence of any injury while at work. Each injured site worker will be expected to complete the Employee Accident Report form in this procedure.

Supervisor Responsibility:

Upon notification of an accident resulting in injury to a site worker, the supervisor shall contact the PSO or designated backup PSO immediately. The supervisor shall complete the form at the end of this procedure based on information provided by the injured worker or witnesses.

It is the responsibility of the injured worker's supervisor to completely and thoroughly investigate the occurrence of all injuries and accidents that occur in the worker's area. The supervisor may seek the guidance of his/her manager in the event of a serious or complicated situation or if there is reason to believe that fraud is involved.

The primary objective of all accident investigation and reporting is the identification of the factors that caused the accident to occur. Such factors may include a lack of training of the injured worker, improperly maintained equipment, violation of a safety rule or safety procedure, or commission of an unsafe act by the injured person or other worker. Once all causes have been identified and examined, the supervisor must identify and implement corrective measures designed to prevent the recurrence of a similar accident in the future. The reporting and investigation process shall not be considered complete until corrective action has been completed.

Management's Responsibility:

The PSO or affected contractor shall be responsible for auditing the timeliness and completeness of accident reporting. If an audit determines that a site worker has failed to report an on the job injury, that employee may be subject to disciplinary action, including possible termination.

▼ Restricted Work Activity:

The supervisor must communicate to the treating physician that restricted work activity (light duty) is available for the injured worker. The supervisor shall request in writing the specific physical restrictions or limitations placed on the worker by the physician. Unless the restrictions call for bed

Appendix D 2

Reporting & Investigating Injuries & Injury Management

rest or a total restriction of activity, the supervisor shall request that the individual be returned to work on a restricted basis. If the physician has any specific questions concerning the restricted work activity program, the doctor should be requested to contact the PSO, designated backup PSO, or affected contractor for additional information.

▼ OSHA 200 Log and Summary of Occupational Injuries and Illnesses:

The PSO or designated backup PSO is responsible for maintaining the OSHA 200 Log and Summary of Occupational Injuries and Illnesses. Affected contractors are responsible for maintaining the OSHA log for injuries involving their own employees. Entries shall be made for all injuries and illnesses that require more than first aid treatment. The back of the log describes what injuries should be entered on the log. The log shall be kept current as injuries occur during the calendar year.

The log shall be posted where all employees can read it no later than February 1 the following year and shall remain in place until at least March 1. The OSHA 200 log shall be kept on file in the office for at least 5 years following its completion. A copy of the OSHA 200 log is found at the end of this procedure.

Appendix D 3

CCCI Site Accident/Injury Report Form

Name Of Injured Employee
Date of Injury
Occupation
Address Where Accident Occurred
Describe The Injury Sustained By The Employee
Describe How The Accident Occurred:
What Unsafe Condition Contributed To The Accident:
What Unsafe Act By An Employee Contributed To The Accident:
Describe Any Violation of A Safety Rule:
Describe Action Taken or Recommended to Prevent a Similar Accident from Occurring
Names Of Witnesses To Accident:
Name of Clinic or Physician That Treated Employee:
Name of Supervisor
Signature
Date of Report:

CCCI Site Injured Worker Accident Report

Employee's Name:	
	Time of Accident:
Location of Accident:	
Describe What Happened:	
Describe How You Were Injured And What C	Caused The Injury:
What Part(s) of Your Body Were Injured:	
Have You Ever Had An Injury To This Part O	of Your Body Before?:
If Yes To Above, Describe:	
Who Was Present When The Accident Happ	ened?:
I Certify That The Above Report Is True A	nd Correct:
(print and sign name)	(date)

*ACCIDENT REPORTS MUST BE HANDED IN TO YOUR SUPERVISOR, OR CONTRACTOR EMPLOYER, IMMEDIATELY AFTER ANY ACCIDENT. FAILURE TO PROMPTLY REPORT ACCIDENTS WILL RESULT IN DISCIPLINE UP TO AND INCLUDING TERMINATION.

Job-Site Information & Documentation			YES, NO OR N/A (circle answer)		
1.	OSHA and other necessary postings in place	YES	NO	N/A	
2.	Company safety manual on site	YES	NO	N/A	
3.	MSDS files available in trailer or on site	YES	NO	N/A	

Housekeeping, Sanitation, First Aid			YES, NO OR N/A (circle answer)		
4.	Toilet facilities adequate & clean	YES	NO	N/A	
5.	Adequate drinking water available	YES	NO	N/A	
6.	Hand washing facilities available when required	YES	NO	N/A	
7.	Job site housekeeping acceptable	YES	NO	N/A	
8.	First aid supplies available	YES	NO	N/A	
9.	Emergency phone numbers posted	YES	NO	N/A	

Environmental Health			YES, NO OR N/A (circle answer)		
10.	Sub-contractors have written HAZCOM program on site	YES	NO NO	N/A	
11.	MSDS available for all hazardous chemicals on site	YES	NO	N/A	
12.	All site workers in possession of 40 hour and 8 hour refresher cards, if applicable	YES	NO	N/A	
13.	Proper levels of personal protective equipment being used	YES	NO	N/A	
14.	Decontamination being used when indicated in site health and safety plan	YES	NO	N/A	
15.	All site workers presented with site safety and health plan	YES	NO	N/A	
16.	Appropriate respirators worn and used properly	YES	NO	N/A	
17.	Workers wash face and hands after leaving exclusion zone	YES	NO	N/A	
18.	All workers signed in on visitors log	YES	NO	N/A	
19.	All perimeter areas of site secured	YES	NO	N/A	
20.	Current air monitoring data available				
21.	Sub-contractors have written respirator program on site	YES	NO	N/A	
22.	Lighting adequate in all work areas	YES	NO	N/A	

100 L	Fire Prevention		YES, NO OR N/A (circle answer)		
23.	Safety cans used for storage of flammable liquids	YES	NO	N/A	
24.	Adequate number of fire extinguishers available	YES	NO	N/A	
25.	Fire extinguishers sealed and inspected	YES	NO	N/A	
26.	Fire extinguishers near torch and welding work	YES	NO	N/A	
27.	Gas cylinders stored upright with caps in place	YES	NO	N/A	
28.	Oxygen and fuel gas cylinders stored separately	YES	NO	N/A	
29.	Gas cylinders secured to prevent them from tipping	YES	NO	N/A	
30.	Combustibles removed from torch or welding areas	YES	NO	N/A	

Date:	Project Safe	ty Officar:		
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Personal Protective Equipment			YES, NO OR N/A (circle answer)	
31.	All persons on site wearing hard hats	YES	NO	N/A
32.	Eye protection used with saws, grinding, chipping, etc.	YES	NO	N/A
33.	Shoes/boots appropriate and in good condition	YES	NO	N/A
34.	Welding/burning goggles used	YES	NO	N/A

i Tools			YES, NO OR N/A (circle answer)		
35.	Power tools, saws, etc. equipped with proper guards	YES	NO	N/A	
<i>3</i> 6.	Blades of power saws property installed and undamaged	YES	NO	N/A	
37.	Cases on double insulated tools intact and not cracked	YES	NO	N/A	
38.	Handles on tools in good condition and not cracked or taped	YES	NO	N/A	
39.	Hand tools in good condition	YES	NO	N/A	

Electrical/Safety			YES, NO OR N/A (circle answer)		
40.	All electrical tools/equipment grounded or double insulated	YES	NO	N/A	
41.	All overhead electrical hazards identified, posted, protected	YES	NO	N/A	
42.	Ground fault protection (GFCI) available/used	YES	NO	N/A	
43.	Extension and equipment cords in good condition	YES	NO	N/A	

Scaffolding Scaffolding		YES, NO or N/A		
**************************************			rcle answ	
44.	Scaffolding secure, level, and plumb	YES	NO	N/A
45.	All working platforms are fully planked	YES	NO	N/A
46.	Planks overlap 6" - 8" on end frames	YES	NO	N/A
47.	Planks overlap each other at least 12"	YES	NO	N/A
48.	Guardrails on all scaffold platforms over 10 feet high	YEŞ	NO_	N/A
49.	Toe boards on all working platforms of scaffolds	YES	NO	N/A
50.	Scaffold secured to structure properly	YES	NO	N/A
51.	Cross bracing properly installed on scaffold	YES	NO	N/A
52.	Casters on rolling towers locked when set in place	YES	NO	N/A
53.	Fall protection worn in boom trucks and lifts	YES	NO	N/A

		~		
Date:	Project Safety	/ Officer:		
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Fáll Protection		YES, NO OR N/A (circle answer)		\
54.	Guard rails installed on all open sides/floors with 6' fall exposure	YES	NO	N/A
55.	Guard rails sound and free of obvious defects	YES	NO	N/A
56.	Holes in floors/roofs protected by adequate covers or guardrails	YES	NO	N/A
57.	Workers using fall protection equipment when exposed 6 foot fall	YES	NO	N/A
58.	Anchor point sufficient for fall protection equipment	YES	NO	N/A
59.	Fall protection equipment free of excessive wear, cuts, defects	YES	NO	N/A
60.	Safety monitors used for workers outside of warning line system	YES	NO	N/A
61.	Work areas below barricaded to protect from falling materials	YES	NO	N/A

Cranes			YES, NO OR N/A (circle answer)		
62.	Cranes equipped with load charts or indicators	YES	NO	N/A	
63.	Swing radius of crane barricaded or protected	YES	NO	N/A	
64.	Operators manual available in cab of crane	YES	NO	N/A	
65.	Outriggers of crane fully extended	YES	NO	N/A	
66.	Rigging properly secured and free of defects	YES	NO	N/A	
67.	Safety latch in place on crane hook	YES	NO	N/A	
68.			NO	N/A	

Excavations		YES, NO OR N/A (circle answer)		
69 .	Excavations greater than 5 feet deep use protective system	YES	NO	N/A
70.	Protective system/sloping adequate for soil type	YES	NO	N/A
	Spoil piles kept at least 2 feet from edge of excavation	YES	NO	N/A
72.	Water removed from excavation prior to entry by employees	YES	NO	N/A
73.	Sub-contractor has "competent person" on site at all times	YES	NO	N/A
74.	Shoring and trench shields used properly	YES	NO	N/A

	Stairways & Ladders	YES, NO OR N/A (circle answer)		
<i>75</i> .	Ladders extend at least 3 feet above landing areas	YES	NO	N/A
76.	Ladders secured to the structure to prevent tipping	YES	NO	N/A
77.	Ladders in good condition and free of defects	YES	NO	N/A
78.	Non-metal ladders used for electrical hazards/work	YES	NO	N/A
79.	Stairs/temporary stairs provided with handrail/stairrail	YES	NO	N/A
80.	Stairs free of construction debris, electrical cords, etc.	YES	NO	N/A

Date:	_Project Safety Office	er:	
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	answers, describe corrections taken:
For any NO a	answers, describe corrections taken:
Question #	TO THE CONTROL OF THE PARTY OF THE PARTY OF THE STATE OF

Date: _____Project Safety Officer: _____



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL ~0604-3590

April 27, 1999

REPLY TO THE ATTENTION OF

Mr. James T. Harrington, Co-Chairman Conservation Chemical Company of Illinois Steering Committee Ross and Hardies 150 N. Michigan Avenue Chicago, Illinois 60601-7567

Re:

Approval of Proposed Contractor and Project Coordinator; Approval with Revisions to the Work Plan and Safety Plan for the Administrative Order on Consent for Conservation Chemical Company of Illinois Site, U.S. EPA Docket No. V-W-98-C-497

Dear Mr. Harrington:

By this letter, U.S. EPA approves the 6500 Group's selected general contractor Krikau, Pyles and Rysiewicz and Associates, for implementation of the Removal Work Plan at the Conservation Chemical Company of Illinois Site in Gary, Indiana. In addition, U.S. EPA approves the selected project coordinator, Mr. Fred Krikau.

The U.S. EPA has reviewed the 6500 Group's proposed Removal Action Work Plan and has identified some minor issues that must be addressed. This letter approves of the submitted Removal Work Plan with the revisions listed below. If the 6500 Group agrees with the revisions, they will automatically be incorporated into the Work Plan. This will not require a re-write of the Plan or a second approval letter. If the Group does not agree with the following revisions, then a conference should be set up immediately to discuss the revisions.

U.S. EPA Comments on CCCI Work Plan

Figure 2-1 on page 12:

Is the field office off-site or on the CCCI property? If it is off-site, the owner of the property will have to be notified.

Section 2.2.1 on page 13:

This section states that pH and cyanide are being analyzed in the field using a Hach DR/4000 U. Additional monitoring equipment must also be used (PID, FID, combustible meter, and a cyanide monitox).

Section 2.2.3 on page 15:

The section proposes reducing leaking drums by overpacking or covering the drums. To reduce the effect of leaking drums, the drums should be overpacked, but not covered. All leaking drums must be immediately overpacked.

Section 2.2.5 on page 15:

The proposed grab samples would not effectively characterize the entire contents of the lagoons. Composite samples must be used to accurately characterize the material in the lagoons. Composite samples must be collected to a minimum depth of 8 feet in the Pie Shape Basin and 3 feet in the acid sludge lagoon and off-site lagoon.

Section 2.2.7 on page 17:

The representative sample from a boring sample would be considered a composite sample. To determine a hot spot area, a grab sample at the specific depth must be analyzed or monitored with an HNU (head space readings from the sample). Grab samples must be collected at specific depths, 0-1 foot, 1-2 feet 2-3 feet and 3 feet and below, until the ground water is encountered.

Section 3.0 on page 20:

The work plan does not discuss any sampling validation requirements for the sample results. The minimum sample analysis requirement for data validation is set forth in U.S. EPA OSWER 9360.4 April 90 Guidance for Quality Assurance Level II. A minimum of 10% field duplicate samples must be collected and analyzed under this protocol. In addition, all of the data must be QA/QC checked independently from the lab by a field chemist working for the PRP Group. Performance Evaluation samples are required for PCB's, metals, and volatile and semi-volatile compounds.

Section 3.3 on page 23:

Include a provision for the U.S. EPA OSC to request a split sample of any sample collected by the 6500 Group's contractor. In addition, the U.S. EPA OSC may collect samples at any location throughout the site.

Section 3.3.2 on page 24:

Composite Samples of the Pits/Basins would be more characteristic of the waste. The entire depth of the pit and basin will have to be sampled to fully characterize the waste.

Section 3.3.3 on page 24:

A grab sample from each drum must be collected and will include all multi-layered material. Multi-layered material must be Hazcatted separately.

Section 3.3.5 on page 25:

ACM must be collected by a state-licensed and approved sampler.

Section 3.7 on page 27:

Under sample notification, the OSC is required to be notified not less than three days in advance of any sample collection activity. The sample notification must be a written notification given to and reviewed by the OSC. The written notification must be placed in the Site file.

In the work plan there is no mention of turnaround time for sample results. The standard turnaround time for sample results is approximately two to three weeks. The OSC must be notified and provided copies of all verbal and hard copy analytical data.

Section 4.0

The Quality Assurance Plan (QAP) must include the following items:

1) Use of OSWER 9360.4 April 90 QA Level II when analyzing and when validating the sample; 2) the turnaround time to conduct the sample analysis; and 3) the OSC should receive verbal and hard-copy sample results.

Section 5.4 on page 35:

The last sentence indicates that "...the site has a history of the handling, storage, and processing of variety of hazardous material included the following:". Then it goes into section 5.4.1, chemical hazards. The information in table 5-1 through 5-3 must be included in Section 5.4.

Section 5.4.1.1 on page 36:

The abatement of Asbestos Containing Materials (ACM) must adhere to state and local regulations.

Section 5.4.1.1 on page 40:

Under the topic PCB, the first sentence on page 40 states that workers exposed to PCBs will be protected through the use of protective clothing. Include additional language requiring workers near PCB contamination to wear proper PPE.

The work plan states that the PCB work conducted will be monitored. At a minimum, a Real Time Aerosol (RAM) must be utilized to monitor dust levels and Action Levels. In addition, personnel air pumps shall be utilized, using NIOSH Method 5503.

Section 5.5.1 on page 51:

Workers must always work in pairs, no matter what type of PPE level is worn.

Section 5.5.3

For Tables 5-2 through 5-4, the action levels are not given or the requirements prior to conducting work on-site in the hot zone. The action levels are not predetermined for unknown chemicals. The standard U.S. EPA method for unknown chemicals or a mixture of chemicals is as follows (readings are collected in the breathing zone for one minute):

<1 ppm above background level D
1-5 ppm above background level C
5-500 ppm above background Level B
>500 ppm above background Level A

Section 5.5.3.4 on page 56:

The work plan indicates that workers would be suspended by crane to collect a sample from the lagoon. This is not a safe practice. A Cherry Picker with a basket is more appropriate.

Section 5.8 on page 66:

The emergency numbers for police, fire, ambulance, hospital, and any other emergency contacts must be listed in the safety plan. The medical section must indicate which personnel have CPR training.

Section 6.5 Subsurface Soil on page 74:

Under this section, the work plan indicates that if PCB-contaminated soil (> 50 ppm) is encountered during the removal activities in the amount of 500 cubic yards or less, that soil will be excavated, loaded, and removed off-site. The Consent Order states that PCB contamination will be excavated up to a maximum of 500 cubic yards, at which time a reopener will be evaluated. If an area is identified that is greater than 500 cubic yards, the excavation will start on that area until the 500 cubic yard maximum is reached and then negotiation will proceed for a potential reopener to the Consent Order.

Section 6.6 Lagoon Sludge on page 75:

All stabilization must be conducted within the lagoon area or waste management unit to comply with the Land Disposal Restrictions (LDR). If material is moved out of the waste management unit, the LDR may apply.

Section 6.9 Containment Barrier:

The evaluation, engineering, and design of the barrier must commence prior to any installation. The design and construction of the barrier will be approved by the OSC prior to construction.

Section 7.1 Monthly Report:

Excavation material and disposal information must be included in the monthly report.

Appendix A:

The Hazcatting information must be available in the work plan.

Please inform me regarding whether the 6500 Group accepts this approval of the Work Plan with the stated revisions. If the Group does not accept all of the revisions, then we should schedule a meeting as soon as possible. If you have any questions regarding this letter or need clarification on the revisions, please feel free to contact me at 312-353-9351. We are looking forward to working with you to bring this project to a successful completion.

Sincerely,

Region V. On Soons Conding

Region V, On-Scene Coordinator

cc: Dina Dalianis, Associate Regional Counsel, U.S. EPA

Valerie Mullins, Enforcement Specialist

KPR and Associates

LAW OFFICES

Ross & HARDIES

A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

150 NORTH MICHIGAN AVENUE CHICAGO, ILLINOIS 60601-7567

312-558-1000

WRITER & DIRECT LINE (312) 750-8510
VWRITER'S DIRECT FAX (312) 020 8177
WRITER'S EMAIL. Emes hamington@rocshardios.com

PARK AVENUE TOWER OD EADT BBTH BTREET NEW YORK, NEW YORK IOORE-DEIP CIE-SCI 8588

W.H. TERRITE HTH JEST KIE 000 ECIR-BOOCH D.U. MOTUNIHEAW ECIR-BOOCH DESCRIPTION OF THE STREET OF THE

JAMES T HARRINGTON

FAX

312-750-6600

May 5, 1999

Mr. Steven J. Faryan
On-Scene Coordinator (SE-5J)
United States Environmental Protection
Agency, Region 5
77 West Jackson Boulevard
Chicago, 1L 60604-3590

Re: CCCI - Work Plan Approval and Conditions

Dear Mr. Faryan:

On behalf of the 6500 Industrial Highway Group, we are in receipt of the US EPA's approval letter dated April 27, 1999. The April 27, 1999 letter approved the Work Plan, Project Coordinator and Contractor for the remediation of the Conservation Chemical Company site that is located in Gary, Indiana. In addition to the approvals, the letter also contains a number of comments that are to be incorporated into the Work Plan. This letter further states that there is no requirement to rewrite the Work Plan and that if the comments in the letter are acceptable, they will be automatically incorporated into the Work Plan, most likely as an addendum.

All of the comments in the April 27, 1999 letter are acceptable to the 6500 Industrial Highway Group except one comment. This is the comment pertaining to Section 6.5, Subsurface Soil, on Page 74 of the Work Plan. Page 4 of your letter states "the consent order states that PCB contamination will be evacuated up to a maximum of 500 cubic yards, at which time a re-opener will be evaluated. If an area is identified as greater than 500 cubic yards, the evacuation will start on that area until the 500 cubic yards maximum is reached then negotiation will proceed for potential reopener to the consent order." This is a misstatement of the AOC.

Section V, Number 2, Subparagraph (o) of the AOC, states as follows

"... However, with regard to 'other PCB-contaminated materials', as described in this subparagraph o., that are estimated to exceed 500

Mr. Steven Faryan May 5, 1999 Page 2

cubic yards in a single pocket, prior to or after Respondents' removal of such 'other PCB contaminated soil materials' up to 500 cubic yards, Respondents reserve the right to 'reopen' the issue of the cleanup of such 'other PCB-contaminated materials'"

Respondents therefore do not accept the proposed condition of the approval of the Work Plan. The 6500 Industrial Highway Group requests that the actual language in the Administrative Consent Order ("AOC") be used in place of the comment in the letter. If this is acceptable to the US EPA, the remediation can proceed without the need for a conference between the parties.

It is our understanding that this issue was discussed by Krikau, Pyles, Rysiewicz and Associates, the remediation contractor, with you, Steve Faryan, US EPA's On Site Coordinator. It is our understanding that you, Mr. Faryan, did not have a problem with changing the comment to the language of the AOC. Please advise us that this one change to the April 27, 1999 letter is acceptable to the US EPA.

If there are any questions, please contact the undersigned..

Very truly yours,

James T. Harrington

JTH/bjm

cc: Constandina K. Dalianis, Esq.

Valerie Mullins, Enforcement Specialist

6500 Industrial Highway Group



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

April 13, 2000

KPR and Associates, Inc. Attn: Mr. Fred Krikau 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Re: Modifications to the Work Plan required under the Administrative Order by Consent (AOC) in the matter of Conservation Chemical Company of Illinois, Inc. (Site), Gary, Indiana.

Dear Mr. Krikau:

A number of modifications and changes have been made to the approved work plan since the initiation of work in June of 1999. These changes were discussed and verbally agreed upon by the U.S. EPA, On-Scene Coordinator and the 6500 Industrial Highway Group (6500 IH Group). Therefore, the purpose of this letter is to formally memorialize the modifications and changes made to the work plan referenced above pursuant to Section XVII of the AQC.

The modifications and changes made and agreed upon to date are the following:

- 1.) During the demolition of tanks 55 and 56, oil contaminated soils were found under and around these two tanks. Also, during the demolition of the cooling tower, drums were uncovered next to the cooling tower sump. U.S. EPA agreed to remediate any CERCLA excluded oil contaminated soils under and around tanks 55 and 56. The 6500 IH Group agreed to remove and dispose of the uncovered drums found next to the old cooling tower sump. These drums were removed and disposed on January 12, 2000.
- 2.) After the CCCI site was surveyed to determine the actual property lines, it was determined that approximately one half of the pie shaped lagoon, approximately one eighth of the acid sludge lagoon and all of the off-site lagoon are not on the CCCI property. The work plan requires that all off-site lagoon material be relocated on to the property. It was agreed between U.S. EPA and 6500 III Group that two areas of the CCCI property could be used to place the off-site sludges, after stabilization and analytical results indicated the material was non-hazardous. The two areas agreed upon are the northwest corner of the site and existing low areas (former tank 56 area), and the eastern perimeter of the site (a low area located near the former API separator, Basin # 1). Clean clay was used to construct berms in these areas to prevent any migration of the material off-site and the material will be capped with clay.

- 3.) The Extent of Contamination Study, described in Section 2.2.7 of the work plan requires that fourteen soil borings would be conducted in the eastern one-third of the CCCI site. It was agreed by U.S. EPA and 6500 IH Group that test pits would be conducted in lieu of soil borings in the eastern one-third of the CCCI Site. These test pits were completed in October 1999.
- 4.) The work plan requires the removal of the existing groundwater monitoring wells per Indiana Department of Environmental Management regulations. At the request of U.S. EPA, the 6500 IH Group agreed not to remove these wells for a short period of time until after U.S. EPA sampled them one final time. This did not create any extension to the time line or project completion. The closure of the eight wells identified on the site was completed in December of 1999.
- 5.) During the digging of test pits, as described in item 3 above, building foundations and underground piping were encountered in the sub-surface grade which is believed to be from the Berry Oil Refinery that occupied the site prior to CCCI. A number of the sub-surface pipes appeared to be full of oil and several of the pipes appeared to exit the CCCI site and enter the EJ&E Railroad right-of-way. U.S. EPA conducted test pits outside of the fence to determine where the pipes terminated. It was found that all of the pipes along the EJ & E railroad right-of-way terminated at or within the CCCI property boundaries. Because of the concrete foundations and piping located in the area of concern, U.S. EPA agreed that only nine (9) test pits could be completed rather than the fourteen specified in the approved work plan.
- 6.) Due to the breach in integrity of the bottom of tank 51 and the visibly stained soils in the area, U.S. EPA requested that 6500 IH Group dig one test pit and collect subsurface soil samples. The soil sample confirmed that the soil was hazardous. The contaminated soil was disposed of at a hazardous waste facility.
- 7.) Because of the old foundations and piping described in item 5 above, U.S. EPA agreed to waive the requirement to perform a geo-physical study and/or magnetometer study on the eastern one third of the site. In lieu of the geophysical survey U.S. EPA requested that test pits be conducted south and north of the decontamination pad where drums, buried tanks and pits had already been encountered. The 6500 IH Group completed test pits in the area outlined above and a large number of empty, crushed and partially intact drums were encountered, and excavated and staged on plastic. U.S. EPA's technical support unit conducted an electro magnetometer study in the south east corner of the site and in the north west corner of the site to clear the area for placement of the fixated solids. During the study another large pocket of drums was delineated running just south of the decontamination pad, under the site access road. The 6500 IH Group agreed to excavate and stage the drums. The 6500 IH Group has excavated all of the areas where metal anomalies were detected and staged the drums. The 6500 IH Group has not yet committed to remove the excavated drums. Disposal of the drums is

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an issue that needs to be resolved quickly since the completion of the site is approaching quickly.

- 8.) When the CCCI site was surveyed at the start of the remediation, it was determined that the existing fence is not on the CCCI property lines. The 6500 IH Group has agreed that at the end of the remediation, the fence will be relocated within the property lines of the CCCI site. As per a request from Western Scrap Corporation, the access road fence shall remain upon completion of the project.
- 9.) A number of surficial crushed drums were found at the base of Tank 55. The 6500 IH Group has agreed to excavate the exposed drums and stage the drums until proper disposal can be arranged. These drums were excavated and placed on a plastic liner during the week of November 29, 1999.
- 10.) On October 5, 1999, KPR, on behalf of 6500 IH Group took a number of sludge samples from the pie shaped lagoon from areas and a treatability study was conducted with varying percentages of various alkaline stabilizing materials. U.S. EPA agrees that the treatability study performed by KPR fulfills the requirements in the work plan to perform a treatability study and that the "recipe" of 10 % lime kiln dust to 90 % sludge appears to satisfy the requirements of stabilizing the lagoon sludges. Upon the addition of these stabilizing agents, the 6500 IH Group shall periodically sample the fixated sludges to determine that the stabilized matrix is below RCRA regulatory levels for chromium (TCLP chromium 5mg/l) and hexavalent chrome levels of 200 ppm. Once results are received indicating that the stabilized material passes the above parameters than the material can be placed in the northwest corner of the site. In addition, stabilized material will be placed along the eastern perimeter of the site near the former API separator. Upon completion the stabilized material will be covered with clay and seeded to prevent erosion.
- 11.) U.S. EPA and the 6500 IH Group have been talking with the Gary Airport regarding the installation of a culvert pipe in the ditch across the tracks from the CCCI property. The 6500 Group is willing to provide a cash settlement to the airport for the installation of the culvert pipe in lieu of installing the hanging barrier which is required in the work plan. If the agreement can be worked out with all of the parties than an additional modification letter will be prepared by U.S. EPA to address this modification to the Work Plan.

The above items represent the modifications and changes made to the work plan as agreed to by U.S. EPA and the 6500 Industrial Highway Group. These modifications are incorporated into the Work Plan and the AOC. These items are agreed upon by the undersigned project managers for the Conservation Chemical site..

Steven Faryan, On-Scene Coordinator

United States Environmental Protection Agency, Region 5

Fred Krikau, Technical Committee Chairman

6500 Industrial Highway Group

cc: Tom Martin, U.S. EPA, Asst. Regional Counsel

Jim Harrington, Counsel, 6500 Industrial Highway Group



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

NOV 2 9 2001

REPLY TO THE ATTENTION OF

Conservation Chemical Company, Inc. Site SE-5J

CERTIFIED MAIL RETURN RECEIPT REQUESTED

James T. Harrigton, Esq. Ross & Hardies 150 N. Michigan Ave., Suite 2500 Chicago, IL 60601 (For Gary Steel Supply Co) RECEIVED

DEC 1 2 2001

J. T. HARRINGTON

Re: Conservation Chemical Company, Inc. Site ("CCCI") - Amendment to Administrative Order By Consent V-W-98-C-497.

Dear Sir or Madam:

Enclosed please find an executed copy of the Amendment to the Administrative Order by Consent issued for this Site pursuant to Sections 106 and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. §§9606 and 9622. Thank you for your cooperation in this matter.

If you have any questions regarding this Order, please contact Cynthia Kawakami, Associate Regional Counsel, at (312) 886-0564 or Steven Faryan, On-Scene Coordinator, at (312) 353-9351.

Sincerely yours,

William E. Muno, Director

Superfund Division

Enclosure

cc: State Agency Superfund Program Manager

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

)	Docket No. V-W-98-C-497
)	•
)	AMENDMENT TO ADMINISTRATIVE
)	ORDER BY CONSENT, PURSUANT TO
)	SECTIONS 106 AND 122(H) OF THE
)	COMPREHENSIVE ENVIRONMENTAL
)	COMPENSATION, AND LIABILITY
)	ACT OF 1980, as amended, 42 U.S.C.
)	§§ 9606(a) and 9622(h);
)	
))))))))

This is an amendment to the Administrative Order by Consent, Docket Number V-W-98-C-497, for the Conservation Chemical Company of Illinois, Inc. Site, ("the AOC"), that was entered into by the United States Environmental Protection Agency (U.S. EPA) and the Respondents, Lucent Technologies Inc. (for Western Electric, Teletype, and Bell Telephone Laboratories); Gary Steel Supply Company; Bethlehem Steel Corporation; LaSalle Steel Company; Allied Signal Inc. (for Universal Oil Products); K. A. Steel Chemicals, Inc.; Union Oil Company of California d/b/a/ UNOCAL; THE STEEL COMPANY f/k/a/ Chicago Steel & Pickling; Union Carbide Corporation; Ansul, Incorporated (for Ansul Co.); Motorola Inc.; PPG Industries, Inc.; Crucible Materials Corporation, Trent Tube Division; American Chain & Cable Co., Inc.; Navistar International Transportation Corp. (for International Harvester); and Russell, Burdsall & Ward n/k/a RB & W Corporation, (collectively referred to as "Respondents"), on February 4, 1999.

Under the terms of the original AOC, Respondents were required, inter alia, to assess, design, implement, and install a hanging containment barrier along the Southeast border of the Conservation Chemical Company of Illinois, Inc. (CCCI) property to contain the floating contaminated oily layer in the shallow groundwater aquifer that originated at the CCCI property. During Respondents' performance of the removal activities under the AOC, however, U.S. EPA determined that significant new information demonstrated that the installation of a hanging containment barrier would not effectively contain the floating contaminated oily layer, and that U.S. EPA needed to modify the response action. Subsequently, U.S. EPA and Respondents agreed that Respondents shall not install the hanging containment barrier on the CCCI property, and, instead, shall design and install a culvert pipe, below the surface, on the Gary Airport property that is located adjacent to the CCCI property. The culvert pipe will replace the open ditch on the Gary Airport property, and will be designed to prevent the floating contaminated oily layer from entering the pipe and contacting and mixing with the storm water and ground water which will flow through the pipe. Therefore, the installation of the culvert pipe will be designed to eliminate the ditch as a pathway for the contaminated oily layer to travel off-site and eventually to the Grand Calumet River. The culvert pipe will include engineering controls that

will be designed to prevent the floating contaminated oily layer from infiltrating the walls and joints of the culvert pipe. In addition, clay or bentonite "checks" and test points will be installed around the pipe, approximately every 200 feet, to minimize the likelihood of the floating contaminated oily layer moving along the outside of the pipe to a point of discharge on the Gary Airport property. Once the culvert pipe, engineering controls and clay or bentonite checks have been installed, the culvert pipe on the Gary Airport property will be covered and seeded.

THEREFORE, U.S. EPA and the Respondents agree that the original AOC and the Work Plan in this matter shall be amended and modified, except that no requirement under the original AOC and/or Work Plan shall be modified or amended unless specifically addressed in this Amended Administrative Order By Consent (Amended AOC) and/or the Amended Work Plan.

The original AOC is amended and modified as follows:

- 1. All Sections, Paragraphs, and Subparagraphs of the AOC that use the terms AOC and/or Work Plan shall be amended to include the terms Amended AOC and/or Amended Work Plan.
- 2. Section V, Paragraph 2, Subparagraph j of the AOC, shall be replaced by the following:

Assess, design, implement and install a culvert pipe, below the surface, on the Gary Airport property, that is located adjacent to the CCCI property. The culvert pipe will be installed in the area of the open ditch on the Gary Airport property, and will, essentially, replace the original ditch. The culvert pipe will be designed to prevent the floating contaminated oily layer from entering the pipe and contacting or mixing with the storm water and ground water which will flow through the pipe. The installation of the culvert pipe will be designed to eliminate the ditch as a pathway for the contaminated oily layer to travel off-site and eventually to the Grand Calumet River. The culvert pipe will include engineering controls that will be designed to prevent the floating contaminated oily layer from infiltrating the walls and joints of the culvert pipe. In addition, clay or bentonite "checks" and test points will be designed and installed around the pipe, approximately every 200 feet, to minimize the likelihood of the floating contaminated oily layer moving along the outside of the pipe to a point of discharge on the Gary Airport property. Once the culvert pipe, engineering controls and clay or bentonite checks have been installed, the culvert pipe on the Gary Airport property will be covered and seeded. Respondents shall ensure that the response actions described in this subparagraph shall comply with all applicable Federal Aviation Administration (FAA) rules and regulations. Respondents shall also secure all necessary approvals from the FAA and Gary Airport, prior to commencing the response actions described in this subparagraph.

3. Section V, Paragraph 2.1 of the AOC shall be amended to include the following:

Within 15 business days after the effective date of this Amended AOC, Respondents shall submit to U.S. EPA for approval, a draft Amended Work Plan and schedule for the design and implementation of the culvert pipe on the Gary Airport property that is located adjacent to the CCCI property. U.S. EPA shall approve, disapprove, require revisions to, or modify the draft Amended Work Plan and schedule, except that U.S. EPA cannot provide advice and/or approval for the Amended Work Plan and schedule with regard to any FAA technical and/or legal requirement that may apply to the response action that will occur on the Gary Airport property. Therefore, Respondents shall ensure that all applicable FAA technical and legal requirements have been followed in designing and implementing the response action under this Amended AOC and the approved Amended Work Plan. Respondents shall secure all required FAA and Gary Airport approvals prior to starting construction of the response action on the Gary Airport property.

If U.S. EPA requires revisions to the draft Amended Work Plan and/or schedule, Respondents shall submit a revised draft Amended Work Plan within 5 business days of receipt of U.S. EPA's notification of required revisions. Respondents shall implement the Amended Work Plan, as finally approved in writing by U.S. EPA, in accordance with the schedule approved by U.S. EPA. Once approved, or approved with modifications, the Amended Work Plan, the schedule, and any subsequent modifications shall be incorporated as an integral part of this Amended AOC, and shall be fully enforceable under this Amended AOC. Failure of the Respondents to properly implement all aspects of the Amended Work Plan approved by U.S. EPA shall be deemed to be a violation of the terms of this Amended AOC.

4. Following completion of the response action on the Gary Airport property under the Amended AOC and Amended Work Plan (the project), Respondents shall demonstrate in writing and certify that they have complied with all applicable FAA and Gary Airport technical and legal requirements for the design and implementation of the response action under this Amended AOC and Amended Work Plan. The certification shall consist of a statement and certification of a professional engineer, licensed in Indiana and hired by Respondents, that Respondents have authorized and directed him to sign the certification on their behalf that the project was constructed in accordance with the plans and specifications for the project, as certified by the Gary Airport Authority's Engineer. The certification shall attach the signed and sealed statement of a professional engineer, licensed in the State of Indiana, and employed by the Gary Airport Authority that the plans and specifications for the project are in accordance with all applicable FAA requirements and regulations and have been approved by the Gary Airport Authority and FAA.

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- 5. This Amended AOC shall be effective upon receipt by Respondents of a copy of this Amended AOC, signed by the Director of the Superfund Division, U.S. EPA Region 5.
- 6. Each signatory to this Amended Administrative Order by Consent certifies that he or she is fully authorized to enter into the terms and conditions of this Amendment and to bind such signatory and its successors and assigns, to this document.

AMENDED ADMINISTRATIVE ORDER BY CONSENT IN THE MATTER OF:
CONSERVATION CHEMICAL COMPANY
OF ILLINOIS, INC., GARY, INDIANA
DOCKET NUMBER: V-W-98-C-497

SIGNATORIES

Each undersigned representative of a signatory to this Amended Administrative Order on Consent certifies that he or she is fully authorized to enter into the terms and conditions of this Order and to bind such signatory and its successors and assigns, to this document.

Agreed this 8th day of October, 2001.
1 0/0
(Signature)
Grea Vierkant (Typed/Printed Name of Signatory)
AT T- Lucenz Technologies (Typed/Printed Name of Company/Organization)

SIGNATORIES

Agreed this 8th day of October	, <u>2001</u> .
GARY STEEL SUPPLY COMPANY	
By Itym R Sitt	
(Signature)	
Stephen R. Smith	
(Typed/Printed Name of Signatory)	
GARY STEEL SUPPLY COMPANY	
(Typed/Printed Name of Company/Organizati	on)

SIGNATORIES

Agreed this day of, 2001.	
By Ole (
(Signature)	
David E. Tomlinson	
(Typed/Printed Name of Signatory)	
BETHLEHEM STEEL CORPORATION	•
(Typed/Printed Name of Company/Organization)	

SIGNATORIES

Agreed this 8th day of October, 2001.
By Marc J. Segalin
(Signature) Marc J. Segalman DEVP
(Typed/Printed Name of Signatory)
La Salle Steel Company
(Typed/Printed Name of Company/Organization)

SIGNATORIES

Each undersigned representative of a signatory to this Amended Administrative Order on Consent certifies that he or she is fully authorized to enter into the terms and conditions of this Order and to bind such signatory and its successors and assigns, to this document.

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Agreed this $\frac{d}{dx}$ and day of $\frac{\sqrt{c700c7}}{\sqrt{c700c7}}$, $\frac{2001}{\sqrt{c700c7}}$.
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RIII'
By Pel Zudy
By Selling (Signature)
BERNAND LUDNIL
(Typed/Printed Name of Signatory)
K.A. Steel Chemicals Inc.
(Typed/Printed Name of Company/Organization)

SIGNATORIES

Agreed this 4th	_ day of <u>October, 2001</u> .
By(Signature)	Allun
James J	. Dean
(Typed/Printed Nam	ne of Signatory)
Union O	oil Company of California d/b/a UNOCAL
(Typed/Printed Nam	as of Company/Organization)

SIGNATORIES

Agreed this 18 day of October, 2001.
By D. C. Morroel
(Signature)
DC Macasley
(Typed/Printed Name of Signatory)
Union Capale Consister
(Typed/Printed Name of Company/Organization)

SIGNATORIES

Agreed this day of
By Fete Mount
(Signature)
PETER L. PLEMISTER
(Typed/Printed Name of Signatory)
Ansul Co.
(Typed/Printed Name of Company/Organization)

SIGNATORIES

Agreed	1 this	Eh da	y of <u><i>Oct</i></u>	10BER, 2001.
By (Sign	nature)	A. 13	Putil_	
	Roser	A.	BERTE	-Con
(Тур	ed/Printed 1	Name of	f Signatory	·)
	MOTOR	.ou	INC.	
(Tvn	ed/Printed 1	Vame of	f Company	/Organization)

SIGNATORIES

Agreed this 15 th day of October, 2001.	
By Michael Walle	
Michael A Ludlow	
(Typed/Printed Name of Signatory)	
Vice President, Industrial Ctgs. (Typed/Printed Name of Company/Organization)	(PPG)

SIGNATORIES

Agreed this day of, 2001.
By Robert Jaggar (Signature)
ROBERT T TAGGART (Typed/Printed Name of Signatory)
Crucible Materials Corporation (Typed/Printed Name of Company/Organization)

SIGNATORIES

Agreed this _	8th	day of	October	, <u>2001</u> .
By The	of te	Juli		
(Signature)				,
Robert M	. Mil	ler , Sec	retary	
(Typed/Pri	nted Na	me of Signa	atory)	
American	Chain	& Cable	Co., Inc.	
(Typed/Pri	nted Na	me of Com	pany/Organiz	ation)

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AMENDED ADMINISTRATIVE ORDER BY CONSENT IN THE MATTER OF: CONSERVATION CHEMICAL COMPANY OF ILLINOIS, INC., GARY, INDIANA DOCKET NUMBER: V-W-98-C-497

SIGNATORIES

Each undersigned representative of a signatory to this Amended Administrative Order on Consent certifies that he or she is fully authorized to enter into the terms and conditions of this Order and to bind such signatory and its successors and assigns, to this document.

Agreed this 9th day of October, 2001.

By Small J. Gum
(Signature)

Ronald J. Cozean
(Typed/Printed Name of Signatory)

RB&W Corporation NKh RB&W Manufacturing LLC
(Typed/Printed Name of Company/Organization)

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AMENDED ADMINISTRATIVE ORDER BY CONSENT IN THE MATTER OF: CONSERVATION CHEMICAL COMPANY OF ILLINOIS, INC., GARY, INDIANA DOCKET NUMBER: V-W-98-C-497

SIGNATORIES

Each undersigned representative of a signatory to this Amended Administrative Order on Consent certifies that he or she is fully authorized to enter into the terms and conditions of this Order and to bind such signatory and its successors and assigns, to this document.

Agreed this 22 day of Colour, 2001.
Ву
(Signature)
DAVID A. PIECH, SENIOR COUNSEL
(Typed/Printed Name of Signatory)
INTERNATIONAL TRUCK AND ENGINE CORPORATION
(Typed/Printed Name of Company/Organization)

MILLA

SIGNATORIES

Agreed this <u>5th</u> day of <u>November</u> , 2001.
By Robert J. Ford, Director Remediation & Evaluation Services
(Typed/Printed Name of Signatory)
Honeywell International Inc.
(Typed/Printed Name of Company/Organization)

IT IS SO ORDERED AND AGREED

BY: Kuched C Narl William E. Muno, Director

Superfund Division

United States Environmental Protection Agency

Region 5

DATE: 11-29-01

ATTACHMENT A

Amendment to Administrative Order By Consent Conservation Chemical Company of Illinois, Inc. Gary, Indiana Docket No. V-W-98-C-497

List of Respondents

	<u> </u>
1.	AT&T - Lucent Technologies (Western Electric/Teletype/Bell Telephone Laboratories)
2.	Gary Steel Supply Company V
3.	Bethlehem Steel Corporation
4.	LaSalle Steel Company
5.	Honeywell International Inc. (Allied Signal/Universal Oil Products)
6.	K.A. Steel Chemicals Inc.
7.	Union Oil Company of California d/b/a/ UNOCAL
8.	Union Carbide Corporation
9.	Ansul Company -
10.	Ansul Company Motorola Inc. Industrial Ctgs. (PPG)
11.	Industrial Ctgs. (PPG)
12.	Crucible Materials Corporation
13.	American Chain & Cable Co., Inc.
14.	International Truck and Engine Corporation (International Harvester)

RB&W Corporation n/k/a/ RB&W Manufacturing L.L.C.

15.

TANK INVENTORY

CCCI SITE GARY, INDIANA

Tank I.D. No.	Contents	Quantity of Contents	Disposal Site Contents	Disposal Site Tank
1	Hazardous Liquid (Cr/Cd)	• 90 gallons	Clean Harbors (Profile No. CH144191)	Newton County Landfill
2	Empty			Bethlehem Steel
3	PCB Liquid	• 12 drums (660 gallons)	Clean Harbors (Profile No. CH144195)	Bethlehem Steel
4	Hazardous Liquid (Cr/Cd)	• 65 gallons	Clean Harbors (Profile No. CH144191)	Bethlehem Steel
5	Hazardous Liquid (Cr/Cd)	• 90 gallons	Clean Harbors (Profile No. CH144191)	Bethlehem Steel
6	Hazardous Liquid (Cr/Cd)	• 60 gallons	Clean Harbors (Profile No. CH144191)	Bethlehem Steel
7	Hazardous Liquid (Cr/Cd)	• 350 gallons	Clean Harbors (Profile No. CH144191)	Newton County Landfill
8	Hazardous Liquid (Cr/Cd)	• 450 gallons	Clean Harbors (Profile No. CH144191)	Bethlehem Steel
9	Empty			Bethlehem Steel
10	Hazardous Liquid (Cr/Cd)	• 150 gallons	Clean Harbors (Profile No. CH144191)	Newton County Landfill

11	Empty			Bethlehem Steel
12	Non-hazardous oil	• 1 drum (85 gallons)	Clean Harbors (Profile No. CH144199)	Bethlehem Steel
13	Empty			Newton County Landfill
14	Empty			Bethlehem Steel
15	Non-hazardous oily solid	• 7 drums (385 gallons)	Clean Harbors (Profile No. CH144196)	Bethlehem Steel
16	Empty			Newton County Landfill
17	Empty			Newton County Landfill
18	Empty			Bethlehem Steel
19	Hazardous solid (lead/chlordane)	• 3 drums (165 gallons)	Clean Harbors (Profile No. CH144172)	Newton County Landfill
20	Empty			Bethlehem Steel
21	Empty			Bethlehem Steel
22	Empty			Bethlehem Steel
23	Empty			Newton County Landfill
24	Non-hazardous sludge	• 1 drum (55 gallons)	Clean Harbors (Profile No. CH189751)	Gaby Iron & Steel
25	Empty			Newton County Landfill
26	Hazardous Corrosive Liquid (Acid)	• 26,400 gallons • 1 drum (45 gallons)	Clean Harbors (Profile No. CH144189)	Newton County Landfill
27	Hazardous Corrosive Liquid (Acid)	• 5,200 gallons • 1 drum (40 gallons)	Clean Harbors (Profile No. CH144189)	Newton County Landfill

28	Hazardous Corrosive Liquid (Alkaline)	• 31,163 gallons • 30 drums (1,650 gallons) • 1 drum (30 gallons)	Clean Harbors (Profile No. CH144190)	Newton County Landfill
29	Empty			Newton County Landfill
30	Hazardous Corrosive Liquid (Acid)	• 800 gallons	Clean Harbors (Profile No. CH144188)	Newton County Landfill
31	Hazardous Corrosive Liquid (Acid)	• 11,700 gallons • 6 drums (330 gallons)	Clean Harbors (Profile No. CH144189)	Newton County Landfill
32	Hazardous Corrosive Liquid (Caustic)	• 3,400 gallons • 8 drums (440 gallons) • 1 drum (25 gallons)	Clean Harbors (Profile No. CH144194)	Newton County Landfill
33	Empty			Bethlehem Steel
34	Empty			Newton County Landfill
35	Empty			Newton County Landfill
36	Empty			Newton County Landfill
37	Empty			Bethlehem Steel
38	Non-hazardous refractory brick	• 29.33 tons (includes Tank Nos. 39 and 42)	Newton County Landfill (Approval No. NC993586)	Newton County Landfill
39	Non-hazardous refractory brick	See Tank No. 38	Newton County Landfill (Approval No. NC993586)	Newton County Landfill
40	Hazardous Corrosive Liquid (Acid)	• 3,800 gallons • 7 drums (385 gallons)	Clean Harbors (Profile No. CH144188)	Newton County Landfill
41	Hazardous Solid (Ferric chloride)	3 cubic yards	Clean Harbors (Profile No. CH144193)	Newton County Landfill

				1
42	Hazardous Corrosive Liquid (Acid)	• 3,500 gallons • 19 drums (1,045 gallons)	Clean Harbors (Profile No. CH144189)	Newton County Landfill
	Non-hazardous refractory brick	• See Tank No. 38	Newton County Landfill (Approval No. NC993586)	Newton County Landfill
43	Hazardous Corrosive Liquid (Acid)	• 200 gallons	Clean Harbors (Profile No. CH144189)	Fiberglass/debris to CID-RDF landfill
44	Empty			Newton County Landfill
45	Hazardous Corrosive Liquid (Acid)	• 750 gallons • 2 drums (110 gallons)	Clean Harbors (Profile No. CH144189)	Newton County Landfill
46	Empty			Newton County Landfill
47	Empty		,; ,	Bethlehem Steel
48	Empty			Newton County Landfill
49	Empty			Newton County Landfill
50	Empty			Bethlehem Steel
51	Hazardous waste solid (methylene chloride, n- butanol, Cr, Cd)	• 24 cubic yards • 1,600 gallons	Clean Harbors (Profile No. CH144191)	Bethlehem Steel
52	Hazardous waste solid (TCE)	• 25.11 tons	Michigan Disposal (Approval No. 092599MJ)	Newton County Landfill
53	Empty			Bethlehem Steel
54	Empty			Bethlehem Steel
55	Non-hazardous petroleum contaminated soil	• 472.39 tons	CID-RDF #4 (Profile No. BG009)	Bethlehem Steel
56	Empty			Bethlehem Steel

57	Empty			Fiberglass/debris to CID-RDF landfill
58	Hazardous Corrosive Liquid (Alkaline)	• 1,975 gallons • 10 drums (550 gallons)	Clean Harbors (Profile No. CH144190)	Bethlehem Steel
59	Empty			Bethlehem Steel

Slate Form LPC 62 8/81 | L532-0610 213

LEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No 2050-0039 Manrios 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by Illinois law **UNIFORM HAZARDOUS** 2 Page 1 Document No **WASTE MANIFEST** 40888992 0001 ND 0 3. Generator's Name and Mailing Address 6500 Industrial Highway Group 6499 Industrial Highway A. Illinois Manifest Document Number 33 48 Location & Different FEE PAID £**84**93061° 414 PINZA DK. #106 IF APPLICABLE 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265

5. Transporter 1 Company Name B. Generator's IL: 100 AST A Mark States ID Number C. Transporter's Nools On US EPA ID Number 5. Transporter 1 Company Name Horbars Env Service Inc MAD039322250 D. Transporter's Phone É. Transporter's 7. Transporter 2 Company Name US EPA ID Number ID Number-F. Transporter's Phone (-) 9. Designated Facility Name and Site Address 10. US EPA ID Number G. Facility's IL Clean Harbors Services Inc 11800 South Stony Island Ave Chicago, IL 60617 ID Number 0 13 11 16 0 0 0 0 15 11 H. Facility's Phone (773) 646-6202 LD0006084 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 13 ં એ^માજી કર્યું છે. Total Unit Waste No. 2 Type Quantity a. WASTE CORROSIVE LIQUID, ACIDIC, (Sulfuric Acid), 8, UN3264, II EPA HW Number INORGANIC, N.O.S. ישועע K 0 6 EPA HW Number b. ë EPA HW Number C. O ä //17 n-1374. EPA HW Number d. 1987-78PO J. Additional Description for Materials Listed Above "一般"对"自"的" K. Handling Codes for Wastes Listed Above In Item #14 and 11a CH144189B D002, D007, D008 the arial Handling Instruction National 15. Special Handling Instructions and Additional Information QUANITY IS ESTIMATED - Please CONTACT

AM WILL METERED wo# NB189251 Response Center 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date 앒 Printed/Typed Name Month Day Signature 800 -400. HU) 1.60 08019 <u>Hgunt</u> for 17. Transporter 1 Acknowledgement of Receipt of Materials Date 424-8802 Printed/Typed Name Day Month 18. Transporter 2 Acknowledgement of Receipt of Materials 익 Printed/Typed Name Month Dav Year Signature 202 / 426-2675 19. Discrepancy Indication Space ACI 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Signature Month Day Printed/Typed Name

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 10/21, that this information be submitted to the Agency. Failure to provid this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Faisification of this information may result in a fine up to \$50,00 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Manifest No. TL849.306

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(c).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, Also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:

CUADACTERISTIC WASTES DOOL THROUGH DOAR

CECTION I

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION 1.	CHARACIERISTIC WASTES DUUT THROUGH	<u>D</u> 043				
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCAT	TEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLU HANDLI	MMN 4: NG CO	
	[] D001 Ignitables, except Hig		WW [] Non-WW	1 2	3 4	6
	{ } D001 High TOC Ignitable Liq (Greater than or equal		Non-WW only	1A	3 6	
JIA	D002 Corrosives		WW FO Non-WW	(1 2	3 4	6
	[] Reactive Sulfide, per	261.23(a)(5) []	WW [] Non-WW	1 3	4 5	6
	[] Reactive Cyanide, per	261.23(a)(5) []	WW [] Non-WW	1 3	4 5	6
	[] n Explosive, per 261.23(a)(6), (7)∂& (8) []	WW [] Non-WW	1 2	3 4	6
	[] Water Reactive, per 26	1.23·(a)(2), (3) & (4) []	Non-WW only	1 2	3 4	6
	[] Other Reactive, per 26	1.23(a)(1) []	WW [] Non-WW	1 2	3 4	6
	[] Unexploded Ordnance, E	mergency Response []	WW [] Non-WW	1 3	4 5	6
	[] D004 Arsenic	[]	WW [] Non-WW	1 2	3 4	6
	[] D005 Barıum	[]	WW [] Non-WW	1 2	3 4	6
	[] D006					
	[] Cadmium	[]	WW [] Non-WW	1 2	3 4	6
1	[] Cadmium Containing Bat	eries []	Non-WW only	2 3	6	
111	DO07 Chromium	[]	ww [\] Non-ww	(î) 2	3 4	6
	E J. D008		- >	\		
	Lead	[]	WW ['] Non-WW	'ì, 2	3 4	6
	[] Lead Acid Batteries	[]	Non-WW only	2 3	6	

anifest No. TLSU93061

SECTION I. CHARACTERISTIC WASTES DO01-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
SEE MANIFEST	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] D100 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chlorobenzene [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D033 Hexachlorobenzene [] D034 Mexachlorobethane [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachloroethylene [] D038 Pyridine [] D039 Tetrachloroethylene [] D030 Pyridine [] D037 Tetrachloroethylene	WW Non-WW Non-WW Non-WW Non-WW Non-WW Non-WW WW WW WW Non-WW WW WW Non-WW WW WW WW WW	1 2 3 4 6 1 2 3
	[] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Tinyl Chloride	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES FOOL THROUGH FOOS COLUMN 2: WASTE CODE / CONSTITUENTS [] FOOL [] FOO2 [] FOO3 [] FOO4 [] FOO5	COLUMN 3: WASTEWATER/ NON-WASTEWATER [] WW [] Non-WW	COLUMN 4: HANDLING CODE 3 4 5 6
	1. ALL F001-F005	ene [] 26 1 (F005	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoromethane Xylene - mixed isomer: (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. 11249806/

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		CO WA: NON-1	COLUMN 4: HANDLING CODE							
	Hazardous waste containing one or more of the following California List constituents:	[]	ww	ſ] Non-WW	1	2	3	4	5	6
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/. [] Liquids with thallium greater than or equal to 130 mg [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1.000 mg/kg										

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			W	COLUMN 3: ASTEWATER/ -WASTEWATER	CO H ANI		MIN 4 NG C	
IIA	4062	ι	J	WW	Non-ww	3	4(5	\6
]		[] Non-WW	3	4	5	6
		Į)	WW	[] Non-ww	3	4	5	6
	· · · · · · · · · · · · · · · · · · ·	ι	}	WW	[] Non-WW	3	4	5	6
		ι	1	WW	[] Non-ww	3	4	5	6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: Alvin

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

iL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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State Form LPC 62 8/81 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) Form Approved OMB No 2050-0039 (Form designed for use on elite (12-pitch) typewriter.) 1. Generator's US EPA ID No. Manifest 2 Page 1 Information in the shaded areas is not required by Federal law, but is required by Illinois law. **UNIFORM HAZARDOUS** WASTE MANIFEST 00002 IND04088899 3. C65000 Industralialia Haghesay Group A. Illinois Manifest Document Number 1 Location If Different 414 Plaza Drive 6499 Industrial Highway Suite 106 B. Generator's IL Westmont, IL 60559 Gary, IN 46406 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 ID Number Transporter's 768 00 1. ID Number 4 PW0/80 Transporter's US EPA ID Number 039322250 D. Transporter's Phone (78/) 8/9 US EPA ID Number E. Transporter's D Number Transporter 2 Company Name F. Transporter's Phone () 9. Designated Facility Name and Site Address 10. US EPA ID Number G. Facility's IL ID Number 10 (3 |1 |6 |0 10 10 10 15 Clean Harbors Services Inc 11800 South Stony Island Ave H. Facility's Phone (646-6202 ILD000608 Chicago, IL 60617 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Total Unit Waste No. Туре No. Quantity EPA HW Number WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfuric Acid), 8, UN3264, II Ε KO -6 Ņ 0,5,0,0,0 6 E **EPA HW Number** b. R T **EPA HW Number** 0 1. 4. 1. 1. EPA HW Number đ. 四烷二氢 门 · 种种形式 建物中分子 化二十多次 J. Additional Description for Materials Listed Above K: Handling Codes for Wastes Listed Above - In Item #14 11a CH144189B D002 D007 D008 Edidary etwo and the day and 15. Special Handling Instructions and Additional Information wo# NB189251 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Day Month Year Printed/Typed Name Signature Me La DO LADISTIA 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Day Year Signature Month 018/10191 AINUSS 11/1am U 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space A 20. Facility Owner or Operator: Certifipation of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Year Printed/Typed Name Signature This Agency is authorized to require, pursuant to lithrois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1821, that this information be submitted to the Agency Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and impresentation of this information may result in a fine up to \$50,000 per day of violation and impresentation up to 5 years. This form has been approved by the Forms Management Center.

Manifest No. <u>TL8493075</u>

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

CUADACTEDICTIC WASTES DOOL TUDOUSU DOAD

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARAC	TERIST	TIC WASTES DOOL THROUGH DO43						
COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3: WASTEWATER/ NON-WASTEWATER	COL HANDL			
	[]	D001 D001	Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory	[]	WW [] Non-WW Non-WW only	1 2 1A -	3 3	4	6
IJ A:	K	D002	(Greater than or equal to 10% TOC) Corrosives	[]	WW Non-WW	(1) ₂	3	4	6
	j	[]	Reactive Sulfide, per 261.23(a)(5)	[]	ww /[] Non-ww	1 3	4	5	6
	٠,٠	[]	Reactive Cyanide, per 261.23(a)(5)	[]	WW [] Non-WW	1 3	4	5	6
	•	[]	Explosive, per 261.23(a)(6), (7) & (8)	[]	WW [] Non-WW	1 2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW only	1 2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	[]	WW [] Non-WW	1 2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	[]	WW [] Non-WW	1 3	4	5	6
	[]	D004	Arsenic	[]	WW [] Non-WW	1 2	3	4	6
	[]	D005	Barium	[]	WW [] Non-WW	1 2	3	4	6
	[]	D006	· · · · · · · · · · · · · · · · · · ·						
	-	[]	Cadmium	[]	WW [] Non-WW	1 2	3	4	6
Λ		(1)	Cadmium Containing Batteries		Non-WW only	2 3	6		
	⋙	D007	Chromium	[]	WW Non-WW	(T) 2	3	4	6
	158	D008				\sim			
	/	30	Lead	[]	WW Don-WW	₩ 2	3	4	6
	_	1 T	Lead Acid Batteries	[]	Non-WW only	2 3	6		

tanifest No. <u>IL</u> 8493075

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: -WASTE CODE / NAME	ĵ	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009	Low Mercury, less than 260 mg/kg High Mercury Organic Subcategory High Mercury Inorganic Subcategory Selenium Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D 2,4,5-TP (Silvex) Benzene	ry [] []	WW [] Non-WW Non-WW only Non-WW only WW [] Non-WW	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6
	[] D019 [] D020 [] D021 [] D022 [] D023 [] D024 [] D025 [] D026 [] D027	Carbon tetrachloride Chlordane Chlorobenzene Chloroform o-Cresol m-Cresol p-Cresol Cresol	[] [] [] [] [] []	WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D028 [] D029 [] D030 [] D031 [] D032 [] D033 [] D034 [] D035 [] D036	1,2-Dichloroethane 1,1-Dichloroethylene 2,4-Dinitrotoluene Heptachlor (and its epoxide) Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Methyl ethyl ketone Nitrobenzene		WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D038 [] D039 [] D040 [] D041 [] D042	Pentachlorophenol Pyridine Tetrachloroethylene Trichloroethylene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Vinyl Chloride	[] 1 [] 1 [] 1 [] 1	WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVE	COLUMN 2: WASTE CODE / CONSTITUENTS [] F002 [] F003 [] F004	. ' [] F005 [] I	COLUMN 3: WASTEWATER/ NON-WASTEWATER WW [] NON-WW	COLUMN 4: HANDLING CODE 3 4 5 6
	distingui p-cresol) 10. p-Cresol distingui m-cresol) 11. Cresol -		yclohexanone -Dichlorobenzene -Ethoxyethanol (F00) ly) thyl acetate thyl benzene thyl ether sobutyl alcohol ethanol ethylene chloride ethyl ethyl ketone ethyl isobutyl keto itrobenzene -Nitropropane (F005)	[] 25 [] 26 [] 27 [] 28 — [] 29 — [] 30 — [] 31 one	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isomera (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1

Manifest No. ILS 493075

SECTION IID. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY .	COLUMN 3: WASTEWATER/ NON-WASTEWATER				COLUMN 4: HANDLING CODE					Έ
	Hazardous waste containing one or more of the following [California List constituents:) W	t	[]	Non-WW	1	2	3	4	5	6
	[] ALL CALIFORNIA LIST CONSTITUENTS										
	[] Liquids with nickel greater than or equal to 134 mg/l										
	[] Liquids with thallium greater than or equal to 130 mg,	/1									
	[] Liquids with PCB's > or = 50 ppm										
	[] Waste containing HOC's > or = 1,000 mg/kg										

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	WA	COLUMN 3: ASTEWATER/ WASTEWATER	COLUMN 4: HANDLING CODE
<u> 11</u> A_	K062	[] ww	Non-ww	3 4 5 6
		[] ww	/ [] Non-WW	3 4 5 6
		() WW	[] Non-WW	3 4 5 6
		[] ww	[] Non-WW	3 4 5 6
		() ww	[] Non-WW	3 4 5 6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: 1 AVID (146)

Date: 8-10-99

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT, SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

CHI Form LDR-1, Page 3 of 3 [Effective 08/24/98]

3/3/ FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (1.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
<u></u>	[] D001 Ignitables, except High TOC subcategory [] D001 High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC) D002 Corrosives [] D003	[] WW [] Non-WW [] Non-WW only [] WW Non-WW	1 2 3 4 6 1A 3 6
	[] Reactive Sulfide, per 261.23(a)(5) [] Reactive Cyanide, per 261.23(a)(5) [] Explosive, per 261.23(a)(6), (7) & (8) [] Water Reactive, per 261.23(a)(2), (3) & (4) [] Other Reactive, per 261.23(a)(1) [] Unexploded Ordnance, Emergency Response [] D004 Arsenic [] D005 Barium [] D006	[] WW	1 3 4 5 6 1 3 4 5 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 3 4 5 6 1 2 3 4 6 1 2 3 4 6
IIA.	[] Cadmium [] Cadmium Containing Batteries D007 Chromium	[] WW [] Non-WW [] Non-WW only [] WW Non-WW	1 2 3 4 6 2 3 6 (T) 2 3 4 6
	D008 Lead Lead Acid Batteries	[] WW Non-WW	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

p-cresol)

Manifest No. <u>IL8493074</u>

SECTION 1. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: -WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor	[] WW [] Non-WW [] Non-WW only [] WW [] Non-WW	1 2 3 4 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6
	[] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chlorobenzene [] D022 Chloroform	[] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 1 2 3 4 6
	[] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide)	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D032 Hexachlorobenzene [] D033 Hexachlorobutadiene [] D034 Hexachloroethane [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachlorophenol [] D038 Pyridine [] D039 Tetrachloroethylene	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
SECTION II.	[] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride SPENT SOLVENT WASTES F001 THROUGH F005 COLUMN 2:	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW COLUMN 3:	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
LINE ITEM SEE MANIFEST	WASTE CODE / CONSTITUENTS [] F001 [] F002 [] F003 [] F004 [] F005	WASTEWATER/ NON-WASTEWATER [] WW [] NON-WW	HANDLING CODE
	1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobenz 3. Benzene [] 14. 2-Ethoxyethano 4. n-Butyl alcohol only) 5. Carbon disulfide [] 15. Ethyl acetate 6. Carbon tetrachloride [] 16. Ethyl benzene 7.y Chlorobenzene [] 17. Ethyl ether 8t o-Cresol [] 18. Isobutyl alcoh 9. m-Cresol (difficult to [] 19. Methanol distinguish from [] 20. Methylene chlo p-cresol) [] 21. Methyl ethyl k distinguish from [] 22. Methyl isobuty distinguish from [] 23. Nitrobenzene m-cresol) [] 24. 2-Nitropropane (gum of o m- and	ene [] 26. 1 (F005 [] 27. [] 28. [] 29. ol [] 30. ride etone [] 32. 1 ketone [] 33.	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isomera (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. <u>IL8493074</u>

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	Hazardous waste containing one or more of the following California List constituents:	[] WW [] Non-WW	1 2 3 4 5 6
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg, [] Liquids with thallium greater than or equal to 130 m [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg		
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-,	U-, AND P-CODES)	
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE

_ NV DO	[] WW	Non-WW	3	4 (5	6
	[] WW	[] Non-WW	3	4	5	6
 	[] ww	[] Non-WW	3	4	5	6
 	() ww	[} Non-WW	3	4	5	6

- [] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
- [] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: ______

Date:

[] Non-WW

KEY TERMS/DEFINITIONS

11Λ

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT, SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that, can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

AND SPECIAL WASTE #335

<u>۲</u>	EASE TYPE (Form designed for use on elite (1)	2-pitch) typewnter.)	EPA Form 8700			orm Approved OME	8 No. 2050-0039 1	
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EF		Manifest Document No	2. F	Page 1 Informa required of 1 Illinois is	ion in the shaded by Federal law, but aw.	areas is not t is required by
	3. Candan Inglish Than Address y G 414 Plaza Drive				`A. 'III	nois Manifest Do	4. 🔿 🔿 : FEE	r PAID PPLICABLE
	Suite 106 Westmont, IL 60559	Garv.	Industrial IN 46406 0-645-8265	algnway		enerator's Number	700 5	1900
	4. *24 HOUR EMERGENCY AND SPILL ASSIST 5. Transporter 1 Company Name	6.	US EPA ID NO			ansporter's UF	W0180-	7430H
	CLEAN HARBORS ENV. SEK 7. Transporter 2 Company Name	rvices my h	7 <i>AD 039</i> US EPA ID NI			ansporter's Phor ansporter's	e (7 <i>81</i>) 84	1/800
			03 LI A ID IN		ID	Number	a special section	- 1 E 14 - 7
	9. Designated Facility Name and Site Address	10.	US EPA ID No	ımber	G. Fa	ansporter's Phor		
	Clean Harbors Services Inc 11800 South Stony Island	Ave .			ID	Number 0: 3 acility's Phone (-		
1.	Chicago, IL 60617		L D Ø Ø Ø 6					202
	11. US DOT Description (Including Proper Shippi	ng Name, Hazard Clas	ss, and ID Number)	12. Co No.	ntainers Type	13. Total Quantity	IAAN AOIT -	I. aste No:
G E	a. WASTE CORROSIVE LIQUID, AC (Sulfuric Acid), 8, UN3264	CIDIC, INORGA 1, II	NIC, N.O.S.				1 1 1	HW Number
N E	.			00		05100		HW Number
R	b.						1.56 V.	Sind Tan
Ţ	С.			· · ·	+		EPA	W Number
R	,						3 50	
	d.			· ·	+ +		EPA I	fW Number
$\ $								A Service of
	J. Additional/Description for Materials Listed Above	0.44.44		A THE STREET		ndling Codes for	Wastes Listed	Above
1	11a CH144189B: D002;D007	D008		idiaki si. Marajan		tem #14	The second second	
					4 × 100	pelitaria e secre Label estada e	· ingression	
	15. Special Handling Instructions and Additional I	nformation		<u>inggaranggal</u>	- E - 17 E		wo# NB18	9251
		,	, ace					
$\ \cdot\ $	10 OFFICE ATOMIC OFFICE ATION I be when deal	and the section of the	ble seedlesmant see 6			ad abassa bu		
$\ $	 GENERATOR'S CERTIFICATION: I hereby declar proper shipping name and are classified, packed according to applicable international and national 	marked, and labeled, a	nd are in all respects i	in proper conditi	on for tran	sport by highway		
	If I am a large quantity generator, I certify that I be economically practicable and that I have selected and future threat to human health and the environment.	have a program in place cted the practicable methor	e to reduce the volume had of treatment, stora	e and toxicity of ge, or disposal	waste ge currently a	nerated to the de vailable to me where	gree I have deter	mined to e present ation and
Н	select the best waste management method that is	available to me and the	at I can afford.	That's made a	good idiiii	0.1011 10 11		Date
lt	Printed/Typed Name /		Signature			7	Month	Day Year
	DAVID KILTSDAMERS (a SI)	Ticher al He	the Grove		\ \		1018	11/1919
7	17. Transporter 1 Acknowledgement of Receipt of	Materials	WIND COLUMN		- 1		1	Date
: H	Printed/Typed Name		Signature					Date Day Year 1999
<u>i</u> [TAROLL (-171)	' 0	61	_		7	601	iag
<u> </u>	YUTKUIL (TAK!)	Matadala	po	ym-	/ /	well		11111
įͰ	18. Transporter 2 Acknowledgement of Receipt of	Materials	Cinnatura	<u></u>				
	Printed/Typed Name		Signature				Month	Day Year
Ţ	19. Discrepancy Indication Space							
	.√et.							
-	20, Facility Owner or Operator: Certification of rec	eiot of hazardous mate	erials covered by this	manifest excer	ot as note	d in item 19.		Date
۲	Printed/Typed Name	A	Signature /	7	/	<u></u>		Day Year
		ernuc		me 1	hum	/	08	1199
Thi	Agency is authorized to require, pursuant to Illinois Revisitiformation may result in a civil penalty against the own	ed Statute, 1989, Chapter	111 1/2, Section 1004 s	and 1021, that thi	Information	n be submitted to	the Agency. Failure	to provide

Manifest, No. TL 8493100

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BRIOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

CHARACTERISTIC WASTES DOOL THROUGH DOAR

SECTION I

- 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(h): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- *** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION 1.	CHARAC	TERIST	TC WASTES DOOT THROUGH DO43								
COLUMN 1: LINE ITEM SEE MANIFEST			WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ NON-WASTEWATER	-	-	umn I ng		DE
	[]	D001	Ignitables, except High TOC subcategory	E	1	WW [] Non-WW	1	2	3	4	6
•	[]	D001	High TOC Ignitable Liquids Subcategory	1	1	Non-WW only	1A	-	3	6	
jiA:	; }	D002 D003	(Greater than or equal to 10% TOC) Corrosives	ŧ	}	WW Non-WW	1	2	3	4	6
	7	[]	Reactive Sulfide, per 261.23(a)(5)	ſ]	WW /[] Non-WW	1	3	4	5	6
	<i>, '</i>	[]	Reactive Cyanide, per 261.23(a)(5)	I)	WW [] Non-WW	1	3	4	5	6
	•	[]	Explosive, per 261.23(a)(6), (7) & (8)	l	1	WW [] Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	1)	Non-WW only	1	2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	- (1	WW [] Non-WW	1	2	3	4	6
		1)	Unexploded Ordnance, Emergency Response	ı	1	WW [] Non-WW	1	3	4	5	6
	[]	D004	Arsenic	(1	WW [] Non-WW	1 '	2	3	4	6
	[]	D005	Barium	[ì	WW [] Non-WW	1	2	3	4	6
	[]	D006									
^		[]	Cadmium	ſ	}	WW [] Non-WW	1	2	3	4	6
11/1			Cadmium Containing Batteries	t	ŀ	Non-WW only	2	3	6		
11/7	₽\$	D007	Chromium	{)	WW Non-WW	(<u>T</u>	2	3	4	6
11/4-	5 X	D008					\sim	ļ			
	/ `	W	Lead	l	}	WW Non-WW	\mathcal{A}	2	3	4	6
	_		Lead Acid Batteries	Į]	Non-WW only	2	3	6		

Manifest No. 118493100

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: -WASTE CODE / NAME	WA	COLUMN 3: STEWATER/ WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] Low Mercury, less than 260 [] High Mercury Organic Subcat [] Bigh Mercury Inorganic Subcat [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chlorobenzene [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol	egory [] Non-	[] Non-WW	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D027 1,4-Dichlorobenzene [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide [] D032 Hexachlorobenzene [] D033 Hexachlorobutadiene [] D034 Hexachloroethane [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachlorophenol [] D038 Pyridine [] D039 Tetrachloroethylene [] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride	e) [] ww	[] Non-WW	1 2 3 4 6 1 2 3 4 6
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES F001 THROUGH F005 COLUMN 2: WASTE CODE / CONSTITUEN	nts w	COLUMN 3: ASTEWATER/ I-WASTEWATER	COLUMN 4: HANDLING CODE
		12. Cyclohexanone 13. o-Dichlorobenzene 14. 2-Ethoxyethanol (F005 only) 15. Ethyl acetate 16. Ethyl benzene 17. Ethyl ether 18. Isobutyl alcohol 19. Methanol 20. Methylene chloride 21. Methyl ethyl ketone 22. Methyl isobutyl ketone 23. Nitrobenzene 24. 2-Nitropropane (F005 only)	[] 26. [] 27. [] 28. [] 29. [] 30. [] 31. [] 32.	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethan Trichloromonofluoro methane Xylene - mixed isom (sum of o-, m-, and p-xylene)

CLEAN HARBORS	ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1

Manifest No. 11-8493100

COLUMN 3:

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		WAS		3: TER/ WATER	COLUMN 4: HANDLING CODE					
	Hazardous waste containing one or more of the following { California List constituents:) W	IW	[]	Non-WW	1	2	3	4	5	6
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/l [] Liquids with thallium greater than or equal to 130 mg/ [] Liquids with PCB's > or = 50 ppm [] Waste containing NOC's > or = 1,000 mg/kq										

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 2:

LINE ITEM SEE MANIFEST	WASTE CODE / SUNCATEGORY	WASTEWATER/ NON-WASTEWATER	HANDLING CODE			
<u> 11A</u> _	K062	[] WW [Non-WW	3 4 5 6			
		/ [] WW [] Non-WW	3 4 5 6			
		[] WW [] Non-WW	3 4 5 6			
	<u> </u>	[] WW [] Non-WW	3 4 5 6			
		[] WW [] Non-WW	3 4 5 6			

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name DAY, 10 19 les Agus tor los 10 to dus mal

Date:

8-11-99

COLUMN 4:

KEY TERMS/DEFINITIONS

COLUMN 1:

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT, SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge faculities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

CHI Form LDR-1, Page 3 of 3 [Effective 08/24/98]

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

ASE IYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22	2 (Rev. 6-89)	Form Approv		
UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID No. TND040888992	Manifest Pocument No	2 Page 1	required by Fe Illinois law.	n the shaded areas is no ederal law, but is required b
	00005			ent Number
414 Plaza Drive		@IL::84	9309	9 FEE PAID IF APPLICABLI
Suite 106 6499 Industrial Hi Westmont, IL 60559 Gary, IN 46406	.gnway			A SHARMAN SHARE ALL
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265		ID Number		
5. Transporter 1, Company Name 6. US EPA ID Number	ber	C::Transporter	su per	10 120 7430
Cle Larbors Gro. Seven In MAD03932	2250	D. Transporter		W 2109 12
7. Transporter 2 Company Name 8. US EPA ID Numl		E. Transporter		7 (Car 25) (Car 25)
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11800 South Stony Island Ave		H. Facility's Ph	one / pm -	a protection to the last
Chicago II. 60617 I I D 0 0 0 6 0			/	- 040-0202
. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Conta	iners 13 Tot		ate to survey and the state
	No.	Type Quar	tity Wt/	
WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	1 1		1	EPA HW Number
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11a CH144189B D002, D007, D008 Special Handling Instructions and Additional Information GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully proper shipping name and are classified, packed, marked, and labeled, and are in all respects in paccording to applicable international and national government regulations.	and accurately proper condition	described above for transport by h	by lighway	o# NB189251
IT a CH144189B D002, D007, D008 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully proper shipping name and are classified, packed, marked, and labeled, and are in all respects in paccording to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume a be economically practicable and that I have selected the practicable method of treatment, storage, and future threat to human health and the environment; OR, if I am a small quantity generator, I have selected the practicable method of treatment, storage, and future threat to human health and the environment; OR, if I am a small quantity generator, I have selected the practicable method of treatment, storage, and future threat to human health and the environment; OR, if I am a small quantity generator, I have selected the practicable method of treatment, storage, and future threat to human health and the environment; OR, if I am a small quantity generator, I have selected the practicable method of treatment, storage, and future threat to human health and the environment; OR, if I am a small quantity generator, I have selected the practicable method of treatment, storage, and future threat to human health and the environment.	and accurately proper condition and toxicity of wa , or disposal cur	described above for transport by haste generated to rently available to	by the degree is me which me	o# NB189251 I have determined to ninimizes the present
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THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

 Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268 40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UNIC's by completing Sections I and IV of CNI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(Λ). (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARAC	TERIST	IC WASTES DOOL THROUGH DO43							
COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ NON-WASTEWATER	COI	JI NG		
	[]	D001	Ignitables, except High TOC subcategory	1)	WW () Non-WW	1 2	3	4	6
•	[]	D001	High TOC Ignitable Liquids, Subcategory	(}	Non-WW only	1A -	3	6	
iA:	X	D002 D003	(Greater than or equal to 10% TOC) Corrosives	Į	}	WW Non-WW	1)2	3	4	6
	j	[]	Reactive Sulfide, per 261.23(a)(5)	1	}	WW /[] Non-WW	1 3	4	5	6
		[]	Reactive Cyanide, per 261.23(a)(5)	ı)	WW [] WW	1 3	4	5	6
	,,	[]	Explosive, per 261.23(a)(6), (7) & (8)	l	}	WW [] Non WW	1 2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	- 1)	Non-WW only	1 2	3	4	6
			Other Reactive, per 261.23(a)(1)	l	}	ww [] Non-ww	1 2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	i)	WW [] Non-WW	1 3	4	5	6
	[]	D004	Arsenic	ŧ	Ì	WW [] Non-WW	1 2	3	4	6
	[]	D005	Barıum	- 1)	WW [] Non-WW	1 2	3	4	6
	[]	D006								
		[]	Cadmium	1)	WW [] Non-WW	1 2	3	4	6
110		/ (3)	Cadmium Containing Batteries	ţ	}	Non-WW only	2 3	6		
	₹	D007	Chromium	1)	WW Non-WW	(T) 2	3	4	6
ПД	*	D008	Lead	į)	ww Non-ww	\bigcirc 2	3	4	6
		l 3	Lead Acid Batteries	ł	3	Non-WW only	2 3	6		

p-cresol)

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2. _WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] High Mercury Organic Subcategory	[] WW [] Non-WW [] Non-WW only [] Non-WW only	1 2 3 4 2 3 4 2 3 4
		[] WW [] Non-WW [] WW []	1 2 3 4 6 1 2 3 4 6
	[] D012 Endrin	Non-WW	2 3 4 5 6
	[] D013 Lindane [] D014 Methoxychlor	[] WW [] Non-WW [] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6
	[] D015 Toxaphene	[] WW [] Non-WW	2 3 4 5 6
	[] D016 2,4-D	[] WW [] Non-WW	2 3 4 5 6
	[] D017 2,4,5-TP (Silvex)	[] WW [] Non-WW	2 3 4 5 6
	[] D018 Benzene	[] WW [] Non-WW	1 2 3 4 6
	[] D019 Carbon tetrachloride [] D020 Chlordane	[] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6
	[] D021 Chlorobenzene	WW Non-WW	1 2 3 4 6
	[] D022 Chloroform	[] WW [] Non-WW	1 2 3 4 6
	[] D023 o-Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D024 m-Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D025 p-Cresol	[] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6
	[] D026 Cresol [] D027 1,4-Dichlorobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D028 1,2-Dichloroethane	[] WW [] Non-WW	1 2 3 4 6
	[] D029 1,1-Dichloroethylene	[] WW [] Non-WW	1 2 3 4 6
	[] D030 2,4-Dinitrotoluene	[] WW [] Non-WW	1 2 3 4 6
	[] DO31 Heptachlor (and its epoxide)	[] WW [] Non-WW	1 2 3 4 6
	[] D032 Hexachlorobenzene [] D033 Hexachlorobutadiene	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D034 Hexachloroethane	[] WW [] Non-WW	1 2 3 4 6
	[] D035 Methyl ethyl ketone	[] WW [] Non-WW	1 2 3 4 6
	[] D036 Nitrobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D037 Pentachlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D038 Pyridine [] D039 Tetrachloroethylene	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D040 Trichloroethylene	[] WW [] Non-WW	1 2 3 4 6
	[] D041 2,4,5-Trichlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D042 2,4,6-Trichlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D043 Vinyl Chloride	[] WW [] Non-WW	1 2 3 4 6
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES F001 THROUGH F005 COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
•			
<u>. </u>	[] F001 [] F002 [] F003 [] F004 [] F005	[] WW [] Non-WW	3 4 5 6
	1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobenze 3. Benzene [] 14. 2-Ethoxyethanol only) 5. Carbon disulfide [] 15. Ethyl acetate 6. Carbon tetrachloride [] 16. Ethyl benzene 7.7 Chlorobenzene [] 17. Ethyl ether 8. o-Cresol [] 18. Isobutyl alcoho 9. m-Cresol (difficult to [] 19. Methanol distinguish from [] 20. Methylene chlor p-cresol) [] 21. Methyl ethyl ke distinguish from [] 22. Methyl isobutyl distinguish from [] 23. Nitrobenzene m-cresol) [] 24. 2-Nitropropane	ene [] 26 1 (F005 [] 27 [] 28 [] 29 ol [] 30 [] 31 ride etone [] 32 1 ketone [] 33	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,1,2-Trichloro 1,2,2-Trichloroethane Trichloromonofluoromethane Xylene - mixed isome (sum of o-, m-, and
[]	11. Cresol - mixed inomers only) (sum of o-, m- and		p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Maintest N

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	WASTE CODE / SUBCATEGORY			OLUM STEW WAST		4: CODE					
	Hazardous waste containing one or more of the following California List constituents:	[] 1	WW	ŧ] Non-WW	1	2	3	4	5	6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/; [] Liquids with thallium greater than or equal to 130 mg [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>										

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	W	COLUMN 3: ASTEWATER/ WASTEWATER	COLUMN 4: HANDLING CODE
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		_ () ww	/ [] Non-WW	3 4 5 6
 		.] ww	[] Non-WW	3 4 5 6
		_ () ww	{ } Non-WW	3 4 5 6
		_ [] ww	[] Non-WW	3 4 5 6

- [] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
- [] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR 1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: FRED G. KRIKAU Johnsin:

Date:

8/11/99

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

CHI Form LDR-1, Page 3 of 3 [Effective 08/24/98]

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., lla) that corresponds to the waste code(s).

 Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 The waste is a characteristic hazardous waste D001, D002, D003, D004 D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.

 2 - The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003
- Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): '(1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17. wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARACTERIS'	FIC WASTES DOO1 THROUGH DO43						
COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3: WASTEWATER/ NON-WASTEWATER	HVNDP COP			DE
	[] D001 ⁵	"'Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[]	WW [] Non-WW Non-WW only	1 2 1A -	3	4 6	6
114	D002		()	WW Non-WW	$(1)^2$	3	4	6
	<i>i</i> (1	Reactive Sulfide, per 261.23(a)(5)	()	ww /[] Non-Ww	1 3	4	5	6
	(1)	Reactive Cyanide, per 261.23(a)(5)	1 3	WW [] Non-WW	1 3	4	5	6
	· ()	Explosive, per 261.23(a)(6), (7) & (8)	1 1	WW [] Non-WW	1 2	3	4	6
	[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW only	1 2	3	4	6
	[]	Other Reactive, per 261.23(a)(1)	[]	WW] Non-WW	1 2	3	4	6
	[]	Unexploded Ordnance, Emergency Response	()	WW [] Non-WW	1 3	4	5	6
	[] D004	Arsenic	[]	WW [] Non-WW	1 2	3	4	6
	[] D005	Barium	[]	WW [] Non-WW	1 2	3	4	6
	[] D006							
	[]	Cadmium	()	WW [] Non-WW	1 2	3	4	6
111/L		Cadmium Containing Batteries	[]	Non-WW only	2 3	6		
	₽ > 0007	Chromium	[]	WW Non-ww	(Î ^r r) 2	3	4	6
	8000 X4				\sim			
• •	/ "妊	Lead	[]	WW Non-WW	\bigcup_2	3	4	6
	/ ()	Lead Acid Batteries	[]	Non-WW only	2 3	6		

p-cresol)

SECTION I. CHARACTERISTIC WASTES DO01-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: _waste code / name	No	COLUMN 3: WASTEWATER/ ON-WASTEWATER	COLUMN 4: NANDLING CODE
SEE MANIFEST	[] D009 [] [] [] [] [] D010 [] D011 [] D013 [] D014 [] D015 [] D016 [] D016 [] D017 [] D018 [] D020 [] D021 [] D022 [] D023 [] D024 [] D025 [] D025 [] D026 [] D027 [] D028 [] D026 [] D027 [] D028 [] D029 [] D030 [] D031 [] D031 [] D033 [] D034 [] D035 [] D036 [] D037 [] D038	Low Mercury, less than 260 mg High Mercury Organic Subcateg High Mercury Inorqanic Subcateg High Mercury Inorqanic Subcateg Selenium Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D 2,4,5-TP (Silvex) Benzene Carbon tetrachloride Chlorodane Chloroform O-Cresol m-Cresol p-Cresol Cresol 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethylene 2,4-Dinitrotoluene Heptachlor (and its epoxide) Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Pentachlorophenol Pyridine	/kq Mercury [] Woory [] Woory [] No ory [] No eqory [] No [] Wood []	W	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 6 6 1 2 3 4 6
SECTION II.	[] D039 [] D040 [] D041 [] D042 [] D043	Tetrachloroethylene Trichloroethylene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Vinyl Chloride	и () и () и ()	Non-WW Non-WW Non-WW Non-WW	1 2 3 4 6 1 2 3 4 6
COLUMN 1: LINE ITEM SEE MANIFEST	[] F001	COLUMN 2: WASTE CODE / CONSTITUENTS [] F002 [] F003 [] F	N	COLUMN 3: WASTEWATER/NON-WASTEWATER W [] Non-WW	COLUMN 4: NANDLING CODE 3 4 5 6
[] [] [] [] [] [] []	7.7 Chlorobe 8. o-Creso 9. m-Creso distingu p-cresol 10. p-Creso distingu m-cresol 11. Cresol		2. Cyclohexanone 3. o-Dichlorobenzene 4. 2-Ethoxyethanol (F00 only) 5. Ethyl acetate 6. Ethyl benzene 7. Ethyl ether 9. Isobutyl alcohol 9. Methanol 10. Methylene chloride 11. Methyl ethyl ketone 12. Methyl isobutyl keto 13. Nitrobenzene 14. 2-Nitropropane (F005 only)	[] 26 [] 27 [] 28 [] 29 [] 30 [] 31 [] 32 [] 32	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoromethane Xylene - mixed isome (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1	Manifest No. 118493097
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SECTION	IIIN.	CALIFORNIA	LIST	WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	Hazardous waste containing one or more of the following [California List constituents:] WW [] Non-WW	1 2 3 4 5 6
	 ALL CALIFORNIA LIST CONSTITUENTS Liquids with nickel greater than or equal to 134 mg/l Liquids with thallium greater than or equal to 130 mg/g Liquids with PCB's > or = 50 ppm Waste containing HOC's > or = 1,000 mg/kg 	/1	

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037 38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			WA	OLUMN 3: .STEWATER/ WASTEWATER	CC HANI		N 4 G C	
11A	K062	. (3	ww	Non-ww	3	4 (3) ₆
		. 1)	ww	/ [] Non-WW	3	4	5	6
		. (3	ww	[] Non-WW	3	4	5	6
•		. (1	ww	[] Non-WW	3	4	5	6
		. (1	ww	[] Non-WW	3	4	5	6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE Hoshway Group Date: 8-12-89

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

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AND SPECIAL WASTE	ZARDO
Form Approved, OMB No. 2050-0039	z

ASE TYPE (Form designed for use	Stat on elite (12-pitch) typewriter)	e Form LPC 62 8/81 EPA Form 8700-	IL532-0610 •22 (Rev. 6-89)	Form App	oroved. OMB	No 2050-0039	33
UNIFORM HAZARDOUS WASTE MANIFEST	1	EPAID No.	Manifest Document No	2 Page 1		on in the shade by Federal law, t w.	
. C6500 or Endous to the ling 14 dyles 414 Plaza Drive	way Group Location	If Different		A: Illinois M		cument Numb	er E PAID
Suite 106	6499 Garv	Industrial H	ighway	B. Generato	rs il	J	APPLICABLI
Westmont, IL 60559	ASSISTANCE NUMBERS®	00-645-8265 US EPA ID Nu	mber	C. Transport	ters /	W01807	4304
LEAN HALPONS ENV	SENVICES IN. 11			D. Transport	er's Phon		19 1800
Transporter 2 Company Name	8. 	US EPA ID Nu	mber	E. Transport ID Number	ler's er	in the second	
Designated Facility Name and Site Ad	ldress 10.	US EPA ID Nu	mber	F. Transport		θ (^[2]) [β] [5]	とが は なる
Clean Harbors Service 11800 South Stony Isl				G. Facility's ID Number	er 10 / 13 /	1 6 0 0	<u>10 10 15 11</u>
Chicago, IL 60617	<u>L</u> T	I. D Ø Ø Ø 6	0 8 4 7 1 12. Conta	H. Facility's	7 13.	73 ⁾ 646-6	
. US DOT Description (Including Propo	er Snipping Ivame, Hazaro Ci	lass, and ID Number)	No.	, 3	otal antity	Litter laterates	Vaste No.
WASTE CORROSIVE LIQUI (Sulfuric Acid), 8, U	D, ACIDIC, INORG	ANIC, N.O.S.				EP/	K Ø 6 2
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Telkji ka	s -	enim p. t t				EPA	HW Number
	ŗ.		<u> </u>	·		is, EPA	HW Number
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				G=	GA	lovs	
Special Handling Instructions and Ad	ditional Information					wo# NB1	89251
ERG # 154							
GENERATOR'S CERTIFICATION: I her proper shipping name and are classified according to applicable international and	, packed, marked, and labeled,	and are in all respects in	lly and accurately proper condition	described above for transport by	e by highway	,	
If I am a large quantity generator, I cert be economically practicable and that I h and future threat to human health and the	ify that I have a program in pla ave selected the practicable mo ne environment; OR, if I am a s	ace to reduce the volume ethod of treatment, storac mall quantity generator, i	ne. or disposal cur	rently available	to me whi	ch minimizes ti	he present
select the best waste management method. Printed/Typed Name		Signature	1			Month	Date Day Year
AND Kles-Aguitor	SD HishWAy G	al 1)	2150			08	128
Transporter 1 Acknowledgement of R	eceipt of Materials	Signaturey ~ /	-//			Month	Date Day Year
Villian L. (1)	AINUSS	Willi	_/-	Jails		08	11291
Transporter 2 Acknowledgement of Re Printed/Typed Name	ecelpt of Materials	Signature	/ /	<u></u>		Month	Date Day Year
·							
Discrepancy Indication Space							
Facility Owner or Operator: Certification							
- down, control or operation commont	on of receipt of hazardous ma	terials covered by this	manifest except a	s noted in Ite	m 19.		Date
Printed/Typed Name 3 UTLERS	on of receipt of hazardous ma	Signature:	manifest except a	as noted in ite	m 19.	Month	Date Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Falture to provide this information may result in a civil penalty against the owner or operator not to 'exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

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THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
 Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UNC's are NOT required to be identified.
 - 2 The waste is a characteristic hazardous waste DO01 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections 1 and 1V of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified, however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARAC	TERIST	IC WASTES DOOL THROUGH DO43							
.COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY		NO	COLUMN 3: WASTEWATER/ DN-WASTEWATER	COI	Lumn Ling		
	[]	D001	Ignitables, except High TOC subcategory	[) W	√ [] Non-WW	1 2	3	4	6
•	Ĺĵ	D001		ĺ) No	on-WW only	1A -	3	6	
IIA:	X	D003	(Greater than or equal to 10% TOC) Corrosives	ι) WI	Non-ww	(1) ₂	3	4	6
	j	[]	Reactive Sulfide, per 261.23(a)(5)	() W	w /[] Non-WW	1 3	4	5	6
	, "	()	Reactive Cyanide, per 261.23(a)(5)	(] WI	WW-noN [] W	1 3	4	5	6
		[]	Explosive, per 261.23(a)(6), (7) & (8)	ı) WI		1 2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[] No	on-WW only	1 2	3	4	6
		{ }	Other Reactive, per 261.23(a)(1)	() W	WW-noN () W	1 2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	t) WI	W [] Non-WW	1 3	4	5	6
	[]	D004	Arsenic	[) WI	W [] Non-WW	1 2	3	4	6
	[]	D005	Barium	1	} W1	WW-non { } W	1 2	3	4	6
	[]	D006								
		[]	Cadmium	1) W	W [] Non-WW	1 2	3	4	6
11/	/	(1)	Cadmium Containing Batteries	ŧ) No	on-WW only	2 3	6		
	₩.	D007	Chromium	ı) W	W Non-WW	(Î ^{**}) 2	3	4	6
114	5⊀	D008					\sim			
		30	Lead	1	} W	W Non-WW	$\sqrt{2}$	3	4	6
	_	1)	Lead Acid Batteries	ſ] N	on WW only	2 3	6		

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Mantfent No. 118493098

SECTION 1. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: _WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4:
	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory	[] WW [] Non-WW [] Non-WW only [] Non WW only	1 2 3 4 2 3 4 2 3 4
	[] D010 Selenium [] D011 Silver [] D012 Endrin	[] WW	1 2 3 4 6 1 2 3 4 6 2 3 4 5 6
	[] D012 Endrin [] D013 Lindane	[] WW [] Non-WW	2 3 4 5 6
	[] D014 Methoxychlor	[] WW	2 3 4 5 6 2 3 4 5 6
	[] D015 Toxaphene [] D016 2,4-D	[] WW] Non-WW	2 3 4 5 6
	[] D017 2,4,5-TP (Silvex)	[] WW [] Non-WW	2 3 4 5 6
	[] D018 Benzene	[] WW	1 2 3 4 6
	[] D019 Carbon tetrachloride [] D020 Chlordane	[] WW [] Non-WW	1 2 3 4 6
	D021 Chlorobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D022 Chloroform	[] WW [] Non-WW	1 2 3 4 6
	[] D023 o-Cresol [] D024 m-Cresol	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D025 p-Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D026 Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D027 1,4-Dichlorobenzene	[] WW	1 2 3 4 6
	<pre>[] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene</pre>	[] WW	1 2 3 4 6
	[] D030 2,4-Dinitrotoluene	[] WW [] Non-WW	1 2 3 4 6
	[] D031 Heptachlor (and its epoxide)	[] WW [] Non-WW	1 2 3 4 6
	[] D032 Hexachlorobenzene [] D033 Hexachlorobutadiene	[] WW	1 2 3 4 6
	[] D034 Hexachloroethane	() WW () Non-WW	1 2 3 4 6
	[] D035 Methyl ethyl ketone	[] WW [] Non-WW	1 2 3 4 6
	[] D036 Nitrobenzene	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D037 Pentachlorophenol [] D038 Pyridine	[] WW	1 2 3 4 6
	[] D039 Tetrachloroethylene	[] WW [] Non-WW	1 2 3 4 6
	[] D040 Trichloroethylene	[] WW	1 2 3 4 6
	[] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol	[] WW	1 2 3 4 6 1 2 3 4 6
	D043 Vinyl Chloride	[] WW [] Non-WW	1 2 3 4 6
SECTION II.	SPENT SOLVENT WASTES FOO1 THROUGH FOO5		
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
<u>. </u>	[] F001 [] F002 [] F003 [] F004 [] F00	05 [] WW [] Non-WW	3 4 5 6
	1. ALL F001-F005 [] 12. Cyclohexanon 2. Acetone [] 13. o-Dichlorobe		. Pyridine . Tetrachloroethylene
· []	3. Benzene [] 14. 2-Ethoxyetha	nol (F005 [] 27	. Toluene
<u>. </u>	4. n-Butyl alcohol only)		. 1,1,1-Trichloro-
[]	5. Carbon disulfide [] 15. Ethyl acetat 6. Carbon tetrachloride [] 16. Ethyl benzen		ethane . 1,1,2-Trichloro-
::	7.7 Chlorobenzene [] 17. Ethyl ether		ethane
	6. o-Cresol [] 18. Isobutyl alc		. Trichloroethylene
()	9. m-Cresol (difficult to [] 19. Methanol		. 1,1,2-Trichloro- 1,2,2-trifluoroethane
	distinguish from [] 20. Methylene ch p-cresol) [] 21. Methyl ethyl		. Trichloromonofluoro-
[]	10. p-Cresol (difficult to [] 22. Methyl 1sobu		methane
	distinguish from [] 23. Nitrobenzene		. Xylene - mixed isome
[]	m-cresol) [] 24. 2-Nitropropa 11. Cresol - mixed isomers only)	me (1005	(sum of o-, m-, and p-xylene)
,	(sum of o-, m- and		· ·/·····

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2 WASTE CODE / SUBCATEGORY		WV:	STEW	N 3: ATER/ EWATER			NDLI		4: COD	E
	Hazardous waste containing one or more of the following California List constituents:	[]	ww	ŧ] Non-W	1	2	3	4	5	6
	 ALL CALIFORNIA LIST CONSTITUENTS Liquids with nickel greater than or equal to 134 mg/ Liquids with thallium greater than or equal to 130 m Liquids with PCB's > or = 50 ppm Waste containing HOC's > or = 1,000 mg/kg 	-									

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K., U-, AND P CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUNCATEGORY	WAS	DLUMN 3: STEWATER/ MASTEWATER	COLUMN 4: HANDLING CODE
<u> 114</u>	K062	[] WW	Non-ww	3 4 5 6
		() ww	/ [] Non-WW	3 4 5 6
		[] ww	[] Non-WW	3 4 5 6
		[] ww	[] Non-WW	3 4 5 6
		[] ww	() Non-WW	3 4 5 6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name:

AJENT FOR
6500 INDUSTRING
Highway Group

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulface precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Purmuant to 40 CFR 260.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

> CHI Form LDR-1, Page 3 of 3 [Effective 08/24/98]

SE TYPE (Form designed for use on elite	(12-pltch) typewriter) EPA	Form 8700-22 (Rev. 6-89)	голи друго	ved OMB No 2050-00	
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. I N D 0 4 0 8 8 8	Manifest Document No.	2. Page 1 of 1	Information in the si required by Federal la illinois law.	haded areas is no iw, but is required b
C65000 r Indusinimal in ilinghe 414 Plaza Drive Suite 106	Group Location If Different	crial Highway	* IL**84		FEE PAID IF APPLICABLE
Westmont, IL 60559 *24 HOUR EMERGENCY AND SPILL ASS	Gary, IN 46	5 4 06	B. Generator's ID Number		
Fransporter 1, Company Nama Da Harbars CW. So.		EPA ID Number 73 93 202 Sカ	D. Transporte		07430 249-12
Transporter 2 Company Name	8. US I	EPA ID Number	E. Transporter	· /km/to	The second section
Designated Facility Name and Site Address		EPA ID Number	G. Facility's IL	rs Phone ()	The state of
Clean Harbors Services I 11800 South Stony Island Chicago, IL 60617	l Ave	00608471	ID Number	none (773) 646	0 0 0 15 1 -6202
. US DOT Description (Including Proper Shi	pping Name, Hazard Class, and ID	Number) 12. Cont	ainers 13 To Type Qua	tal Unit 🎏	Waste No.
WASTE CORROSIVE LIQUID, (Sulfuric Acid), 8, UN32	ACIDIC, INORGANIC, N 64, II	.o.s.		7.	EPA HW Number
45 \$32		00/	120121	000	EPA HW Number
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				(i).	EPA HW Number
				1 1 2 "	
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1a CH14418 65 D002, 100 02	6-, D0071, D008	The second second	In Item.#14		
1a CH14418	6-, D0071, D008		In Item.#14	wo# N	
Ta CH14418 TO DOO2 1966 GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack	6-D007 D008 A state of the contents of this consignited, marked, and labeled, and are in all	ment are fully and accurately	In Item #14	wo# NI	B 190163 189251
Tal CH1441888 D002 See 12 CH1441888 D002 See 14 CH1441888 D002 See 15 CH1441888 D002 See 16 CH144188 D002 See 16 CH144188 D002 See 16 CH14418 D002	eclare that the contents of this consignited, marked, and labeled, and are in all nal government regulations. It I have a program in place to reduce elected the practicable method of treatment, OR, if I am a small quantity	ment are fully and accurately if respects in proper condition the volume and toxicity of wment, storage, or disposal cu generator, I have made a go	described above for transport by l	wo# NI by nighway be the degree ! have	B190163 189251 CR determined to set the present
GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable international and nation be economically practicable and that I have se and future threat to human health and the enviselect the best waste management method the Printed/Typed Name	eclare that the contents of this consignited, marked, and labeled, and are in all nall government regulations. It I have a program in place to reduce elected the practicable method of treatment. OR, if I am a small quantity at its available to me and that I can afform the content of the co	ment are fully and accurately il respects in proper condition the volume and toxicity of with ment, storage, or disposal cui generator, I have made a goord.	described above for transport by leaste generated to trently available to definite effort to record the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effor	by highway of the degree I have of me which minimize my waste g	B190163 189251 CR determined to set the present
GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable international and nation if I am a large quantity generator, I certify that be economically practicable and that I have se and future threat to human health and the enviselect the best waste management method the Printed/Typed Name	ectare that the contents of this consignited, marked, and labeled, and are in all nal government regulations. It I have a program in place to reduce elected the practicable method of treatmentment, OR, if I am a small quantity at Is available to me and that I can allow the program of the practical of the pract	ment are fully and accurately if respects in proper condition the volume and toxicity of wment, storage, or disposal curgenerator, I have made a goord.	described above for transport by leaste generated to trently available to definite effort to record the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effor	by highway of the degree I have of me which minimize my waste g	B190163- I 89251 CK. determined to as the present eneration and Date
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GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable international and nation if I am a large quantity generator, I certify that be economically practicable and that I have se and future threat to human health and the enviselect the best waste management method the Printed/Typed Name 20 KRIKAU - HOLLIF FOR ITANSPORTED TO RECEIPT FOR ITANSPORTED ACKNOWLEDGEMENT OF Receipt Printed/Typed Name	eclare that the contents of this consigning the state of the consigning tend, marked, and labeled, and are in all nal government regulations. It I have a program in place to reduce elected the practicable method of treatminonment; OR, if I am a small quantity at its available to me and that I can afford the state of Materials I of Materials Signature of Materials	ment are fully and accurately ill respects in proper condition the volume and toxicity of with ment, storage, or disposal cui generator, I have made a goord.	described above for transport by leaste generated to trently available to definite effort to record the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effort the second faith effor	by highway of the degree I have of me which minimize my waste g	determined to es the present eneration and Date nth Day May Date nth Day Against Date nth Day Against Date nth Day Against Date nth Day Against Date nth Day Against Date
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GENERATOR'S CERTIFICATION: I hereby de proper shipping name and are classified, pack according to applicable international and natio if I am a large quantity generator, I certify that be economically practicable and that I have set and future threat to human health and the enviselect the best waste management method the Printed/Typed Name Printed/Typed Name Transporter 1 Acknowledgement of Receipt Printed/Typed Name	eclare that the contents of this consigning and information eclare that the contents of this consigning the content of the co	ment are fully and accurately ill respects in proper condition the volume and toxicity of wment, storage, or disposal curgenerator, I have made a goord.	described above in for transport by laste generated to trently available to differ the fort to make the content of the fort to make the content of the conte	by highway of the degree I have of me which minimize my waste g	determined to so the present eneration and Date

Manifest No. 118445151

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is submequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(h): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- *** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARACTERIST	IC WASTES DOO1 THROUGH D043								
COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ NON-WASTEWATER	C) Hani			4 : COI	
:	[] D001 [] D001	Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	-			1 1A	2	3	4 6	6
1117	D002 D003	Corrosives	l (J	WW Non-WW		2	3	4	6
	, 1	Reactive Sulfide, per 261.23(a)(5) Reactive Cyanide, per 261.23(a)(5)	ĺ	ì	WW () Non-WW	1	3	4	5	6
	[]	Explosive, per 261.23(a)(6), (7) & (8)	- [)	WW [] Non-WW	1	2	3	4	6
	[]	Water Reactive, per 261.23(a)(2), (3) & (4)	- 1)	Non-WW only	1	2	3	4	6
	[]	Other Reactive, per 261.23(a)(1)	l	}	WW [] Non-WW	1	2	3	4	6
	[]	Unexploded Ordnance, Emergency Response	(1	WW [] Non-WW	1	3	4	5	6
	[] D004	Arsenic	- [1	WW [] Non-WW	1	2	3	4	6
11A	[] D005	Barium	ſ	1	WW [] Non-WW	1	2	3	4	6
	C M	Cadmium	ſ]	WW Non-WW	\odot	2	3	4	6
11 Λ	/()	Cadmium Containing Batteries	i	j	Non-WW only	2	3	6		
+		Chromium	Į]	WW Non-ww	\mathcal{O}	2	3	4	6
	/ W.	Lead	Į	1	WW DA Non-WW	\Box	2	3	4	6
	11	Lead Acid Batteries	ι	Ì	Non-WW only	2	3	6		

p-cresol)

Manifest No. IL849313/

SECTION 1. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: -WASTE CODE / NAME:		COLUMN 3. WASTEWATER/ NON-WASTEWATER	COLUMN 4:
	[] [] [] []	Low Mercury, less than 260 mg/ High Mercury Organic Subcatego High Mercury Inoiganic Subcate	gory []	l Non WW only	2 3 4 2 3 4
	[] D010 [] D011	Selenium Silver	1 1		
	[] D012	Endrin	[]		
	[] D013	Lindane	[]		
	[] D014	Methoxychlor .	[] []		
	[] D015 [] D016	Toxaphene 2,4-D	<u> </u>	lww llwon-	
	[] D017	2,4,5-TP (Silvex)	· 1		
	[] D018	Benzene	t :] WW [] Non-	
	[] D019	Carbon tetrachloride	Į į] WW [] Non-	WW 12346
	[] D020	Chlordane	i :] WW [] Non-	WW 12346
	[] D021	Chlorobenzene	1 :		
	[] D022	Chloroform	Į.	· · · · · · · · · · · · · · · · · · ·	
	() D023	o-Cresol	Į.		
	[] D024	m-Cresol		• • •	
	[] D025 [] D026	p-Cresol Cresol	[]		
	[] D028	1,4-Dichlorobenzene	ì		
	[] D028	1,2-Dichloroethane	i		
	[] D029	1,1-Dichloroethylene	Ī		
	[] D030	2,4-Dinitrotoluene	1.) WW { } Non-	WW 1 2 3 4 6
	[] D031	Heptachlor (and its epoxide)	ſ) WW () Non-	
	[] D032	Hexachlorobenzene] WW [] Non-	
	[] D033	Hexachlorobutadiene	l [] WW [] Non-] WW [] Non-	
	[] D034 [] D035	Hexachloroethane Methyl ethyl ketone	<u> </u>] WW [] Non-	
	[] D036	Nitrobenzene	i		
	[] D037	Pentachlorophenol] WW [] Non-	- · · ·
	[] D038	Pyridine	1) WW [] Non-	WW 1 2 3 4 6
	[] D039	Tetrachloroethylene	1] WW [] Non-	
	[] D040	Trichloroethylene	•	WW Non-	
	[] D041	2,4,5-Trichlorophenol] WW [] Non-	
	[] D042 [] D043	2,4,6-Trichlorophenol	l I] WW [] Non- } WW [] Non-	
	() DO43	Vinyl Chloride	,) was [] NOIL-	nn 1 2 3 4 6
SECTION II.	SPENT SOLVE	ENT WASTES FOOL THROUGH FOOS			
COLUMN 1:		COLUMN 2:		COLUMN 3:	COLUMN 4:
LINE ITEM SEE MANIFEST		WASTE CODE / CONSTITUENTS		WASTEWATER/ NON-WASTEWATER	HANDLING CODE
•	[] F001	[] F002	04 { } F005 [] WW [] Non-	.ww 3 4 5 6
[]	1. ALL FOOT		. Cyclohexanone . o-Dichlorobenzene	[<u> </u>
· ()	3. Benzene		. 2-Ethoxyethanol (•
· i i	4. n-Butyl	alcohol	only)] 28. 1,1,1-Trichloro-
	5. Carbon o		. Ethyl acetate		ethane
[]	•	_ _ :	. Ethyl benzene		
[]	7.7 Chlorobe		. Ethyl ether	r	ethane
[]	9. m-Creso		. Isobutyl alcohol . Methanol	[
ı J	distingu		. Methanor . Methylene chlorid		1,2,2-trifluoroethane
	p-cresol		. Methyl ethyl keto		
[]		l (difficult to { } 22	. Methyl isobutyl k		methane
	distingu	ish from [] 23	. Nitrobenzene	[
_	m-cresol		. 2 Nitropropane (Γ	005	(sum of o-, m-, and
[]		- mixed isomers o-, m- and	only)		p-xylene)

CLEAN HARBORS	ENVIRONMENTAL SERVICES, INC.	
LAND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1	

Manifest No. 11849315/

	SECTION	III.	CALIFORNIA	LIST	WASTES
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COLUMN 1: LINE ITEM SEE MANIFEST	WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4:
	Hazardous waste containing one or more of the following California List constituents:	[] WW [] Non-WW	1 2 3 4 5 6
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/ [] Liquids with thallium greater than or equal to 130 mg/ [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg		
SECTION IV.	OTHER LISTED WASTES (F006-12, F019 1028, 1017 38, 1019, K	U AND P CODES)	
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
11A	K062	[] WW [Non-WW	3 4 5 6
		[] WW [] Non-WW	3 4 5 6
		[] WW [] Non-WW	3 4 5 6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: FRED G. KRIKAV

Date

8-13.99

Non-WW

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

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HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMDST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

CHI Form LDR-1, Page 3 of 3 [Effective 08/24/98]

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

Form Approved OMB No 2050-0039 3//2 LEASE TYPE (Form designed for use on elite (12 pitch) typewriter) EPA Form 8700-22 (Rev. 6-89) Manifest Document No. Information in the shaded areas is not **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. required by Federal law, but is required by 3. Generator's Name and Mailing Address
6500 Industrial High and Occupant Address
Drive Softett 100 WASTE MANIFEST END 04022899 000/0 A. Illinois Manifest Document Number 1 Group B. Ilimois 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS Transporter's Phone 9. Designated Facility Name and Site Address US FPA ID Number G. Illinois Clean Harbors Services, Inc. 11800 South Stony Island Ave Facility's 1031/160000051 H. Facility's Phone 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number 13. Total 12. Containers Waste No. · Hazardous Waste ligura, N-OS. (Chrones-Colinium), a, NA3082, PGTT J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, and disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date 17. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name ANSPORTER 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed/Typed Name Month Day Year BUT CER

This Agency is authorized to require, pursuant to illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

SECTION I. CHARACTERISTIC WASTES DOOL THROUGH DO43

Manifest No.

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., lia) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system. CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A The waste is a characteristic hazardous waste DOO1 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 The waste is a characteristic hazardous waste DOOl (other than High TOC Ignitable Liquids), DOO2, DOO3 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States. all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CPR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45°; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P076, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT COMPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION PORM.

DDC110N 1	Charac	LEKISI	IC WASTES DOOT THROUGH DO43											
COLUMN 1: LINE ITEM SEB MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COLU WASTI NON-WAS	NA:	TER/			umn Ing			
	[]-	D001	Ignitables, except High TOC subcategory	[])	WW	()	Non-WW	1	2	3	4	6	
	[]	D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)		}	Non-WW	on.	ly	1.8		3	6		
	[]	D002	COTTOBLVEB	(]	WW	()	Non-WW	1	2	3	4	6	
	[]	D003												
		[]	Reactive Sulfide, per 261.23(a)(5)		}	WW .	()	Non-ww	1	3	4	5	6	
		[]	Reactive Cyanide, per 261.23(a)(5))	MM	[]	Non-WW	1	3	4	5	6	
		[]	Explosive, per 261.23(a)(6), (7) & (8))	MM	[]	Non-MM	1	2	3	4	6	
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[])	Non-WW	on	ly	1	2	3	4	6	
		[2]"	Other Reactive, per 261.23(a)(1)	[]	}	WW	[]	Non-WW	1	2	3	4	6	
		[]	Unexploded Ordnance, Emergency Response	1	}	WW	[]	Non-WW	1	3	4	5	6	
	[]	D004	Arsenic	ĺ	1	WW	[]	Non-WW	1	2	3	4	6	
	ĹĬ	D005	Barium	í	1	WW	[]	Non-WW	1	2	3	4	6	
	44	D006		•			_		~					
	7-	M	Cadmaum Le	[1	WW	04	Non-WW	71)	2	3	4	6	
		(i)	Cadmium Containing Battéries	Ĭ	ì	Non-WW	lon	lγ	2	3	6			
111	Χí	D007	Chromium	i				Non-WW	(i)	2	3	4	6	
	1	D008		-		(_	•						
		[]	Lead	(ŀ	WW	[]	Non-WW	1	2	3	4	6	
		[]	Lead Acid Batteries	į)	Non-WW	on	lγ	2	3	6			

p-cresol)

Manafest No. <u>TL74(8744</u>

. I. CHARACTERISTIC WASTES DO01-43 (CONTINUED)

JLUMN 1: L' TTEM	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
		HOW-MAD I BHALDIC	
	() D009		
		[] WW [] Non-WW	1 2 3 4 2 3 4
		[] Non-WW only [] Non-WW only	2 3 4
	[] D010 Selenium	[] WW [] Non-WW	1 2 3 4 6
	[] DO11 Silver	[] WW [] Non-WW	1 2 3 4 6
	[] D012 Endrin	[] WW [] Non-WW	2 3 4 5 6
	() D013 Lindane	[] WW [] Non-WW	2 3 4 5 6
	[] D014 Methoxychlor	[] WW [] Non-ww	2 3 4 5 6
	[] D015 Toxaphene	[] WW [] Non-WW	2 3 4 5 6
	[] D016 2,4-D	[] WW [] Non-WW	2 3 4 5 6
	[] D017 2,4,5-TP (Silvex) [] D018 Benzene	[] WW [] Non-WW	2 3 4 5 6
	[] D018 Benzene [] D019 Carbon tetrachloride	[] WW [] Non-WW []	1 2 3 4 6
	[] D020 Chlordane	[] WW [] Non-WW	1 2 3 4 6
	[] D021 Chlorobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D022 Chloroform	[] WW [] Non-WW	1 2 3 4 6
	[] D023 o-Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D024 m-Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D025 p-Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D026 Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D027 1,4-Dichlorobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D028 1,2-Dichloroethane	[] WW [] Non-WW	1 2 3 4 6
	[] D029 1,1-Dichloroethylene	[] WW [] Non-WW	1 2 3 4 6
	[] D030 2,4-Dinitrotoluene	[] WW [] Non-WW	1 2 3 4 6
	[] D031 Heptachlor (and its epoxide)	[] WW [] Non-WW	1 2 3 4 6
	[] D032 Hexachlorobenzene [] D033 Hexachlorobutadiene	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D034 Hexachloroethane	[] WW [] Non-WW [] WW []	1 2 3 4 6
	[] D035 Methyl ethyl ketone	[] WW [] Non-WW	1 2 3 4 6
	[] D036 Nitrobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D037 Pentachlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D038 Pyridine	[] WW [] Non-WW	1 2 3 4 6
	[] D039 Tetrachloroethylene	[] WW [] Non-WW	1 2 3 4 6
~ ~~~~	[] D040 Trichloroethylene	[] WW [] Non-WW	1 2 3 4 6
	[] D041 2,4,5-Trichlorophenol	[] MM [] NOU-MM	1 2 3 4 6
	[] D042 2,4,6-Trichlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D043 Vinyl Chloride -	[] WW [] Non-WW	1 2 3 4 6
SECTION II.	SPENT SOLVENT WASTES FOO1 THROUGH FOO5		
COLUMN 1: LINE ITEM	COLUMN 2:	COLUMN 3:	COLUMN 4:
SEE MANIFEST	WASTE CODE / CONSTITUENTS	WASTEWATER/	HANDLING CODE
200 (D0121E21		non-wastewater	
	[] P001 [] F002 [] F003 [] P004 [] F005	[] WW [] Non-WW	3 4 5 6
[]	1. ALL F001-F005 [] 12. Cyclohexanone	[]	25. Pyridine
	2. Acetone [] 13. o-Dichlorobenze		26. Tetrachloroethylene
	3. Benzene [) 14. 2-Ethoxyethano:	- ''''	27. Toluene
	4. n-Butyl alcohol only)		28. 1,1,1-Trichloro-
	5. Carbon disulfide [] 15. Ethyl acetate		ethane
	6. Carbon tetrachloride [] 16. Ethyl benzene	()	29. 1,1,2-Trichloro-
	7. Chlorobenzene [] 17. Ethyl ether		ethane
	8. o-Cresol [] 18. Isobutyl alcoho 9. m-Cresol (difficult to [] 19. Methanol	· · · · · · · · · · · · · · · · · · ·	30. Trichloroethylene 31. 1.1,2-Trichloro-
' '			1.2.2-trifluoroethane
	distinguish from [] 20. Methylene chlor p-cresol) [] 21. Methyl ethyl k		32. Trichloromonofluoro-
[]	10. p-Cresol (difficult to [] 22. Methyl 180buty		methane
_ 	distinguish from [] 23. Nitrobenzene		33. Xylene - mixed isomer
	m-cresol) [] 24. 2-Nitropropane		(sum of o-, m-, and
()	- .		(sum of o-, m-, and p-xylene)

CLEAR	HARBORS	ENVIRONMENTAL	L SERVICES,	INC.	
LAND	DISPOSAL	RESTRICTION 1	NOTIFICATION	FORM	LDR-1

Manifest No. 117418744

[] Non-WW

| Non-WW

[] WW

LAND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1	Manifest No	o. <u>-</u> 4⊳	- 	<u> </u>		
SECTION III.	CALIFORNIA LIST WASTES						,
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		WASTI	MN 3: EWATER/ STEWATER	COLI HANDL	UMN 4: ING CO	
	Hazardous waste containing one or more of the foll California List constituents:	lowing []	WW	[} Non-WW	1 2 3	4 5	6 6
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to [] Liquids with thallium greater than or equal to [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1.000 mg/kg						
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F0	039, K-, U-	, AND P	-CODES)			
COLUMN 1: LINE ITEM SEB MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		WAST	UMN 3: EWATER/ STEWATER	COL HANDL	UMN 4 ING CO	
			WW	[] Non-WW	3	4 5	6
			ww	[] Non-WW	3	4 5	6
		()	WW	[] Non-WW	3	4 5	6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

KEY TERMS/DEFINITIONS

Print Name

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

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State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

jt						Rev. 6-89)			AB No. 205		
	UNIFORM HAZARDOUS WASTE MANIFEST		 Generator's N D Ø 			Manifest Document No.		age 1 Information requirements of 1 Illinois	ed by Fede	he shaded areas eral law, but is requ	is not rired by
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Wes	stmont. IL 60559		G	arv.]	TN 46406		B. Ge	nerator's Number	BB	1799	90
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5. Trans	sporter 1 Company Name		_ (6.	US EPA ID Numbe	_	ANSID.	Number U	PW-	0180743	- OH
_ <u></u>	Atherops ENV. SE	noites,		MAI	<u> </u>			ánsporter's Pho	one (//	<u> 1844-18</u>	00.
7. Trans	sporter 2 Company Name			8. 	US EPA ID Numbe	er 	· · · ID	ansporter's Number		کارچون ہے۔ محمد ادار	ه ادر ر ده اده
9. Desig	nated Facility Name and Site Ad	ddress	10	0.	US EPA ID Numbe	er		ansporter's Pho	one (Value Or Ch	
Cle	ean Harbors Service 800 South Stony Isl	es Inc	ve				'Ji ID			0000	<u>5 1</u>
	icago, IL 60617			IL	D00060	8 4 7 1	H. Fa	cility's Phone (773 ⁾ (546-6202 £	100
11. US [DOT Description (Including Prope	er Shippin	g Name, Haza	ard Class,	and ID Number)	12. Conta	iners	13. Total	14. Unit		
				<u> </u>	- J	No.	Туре	Quantity	Wt/Vo		
a.	TARROUG WAGME LIGHT	TD N (. III ac	<i>n</i> ,					EPA HW Nur	nber"
HAZ	ZARDOUS WASTE LIQUI	LD, N.C	J.S. , 9	, NASC	182	0.0.1	11	0,5,2,0,	G	温 紫 紫鹭	0 /
b.					,					EPA HW Nun	nber
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d.										EPA HW Num	nber
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prope accord If I and be eccand fu	ERATOR'S CERTIFICATION: I her er shipping name and are classified rding to applicable international and m a large quantity generator, I cert conomically practicable and that I ha uture threat to human health and the tithe best waste management meth	d, packed, n d national g tify that I ha have selecte the environn	marked, and lal government reg ave a program ed the practical ment; OR, if I a	beled, and gulations. in place to ble method am a small	are in all respects in pro preduce the volume and of treatment, storage, of quantity generator, I have	oper condition of toxicity of wordisposal cui	for tran aste ger rently a	sport by highwanerated to the divailable to me v	egree I h vhich min	imizes the prese ste generation a	ent
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Manifest No. TUS493337

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH D043 COLUMN 1: COLUMN 2: COLUMN 3: COLUMN 4: LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER Ignitables, except High TOC subcategory [] WW [] Non-WW 2 3 4 High TOC Ignitable Liquids Subcategory [] Non-WW only [] D001 1 A 3 (Greater than or equal to 10% TOC) [] WW [] D002 Corrosives [] Non-WW 2 3 D003 [] Reactive Sulfide, per 261.23(a)(5) [] WW [] Non-WW 3 5 [] 1 Reactive Cyanide, per 261.23(a)(5) [] WW [] Non-WW f 1 1 Explosive, per 261.23(a)(6), (7) & (8) [] WW [] Non-WW 1 [] Water Reactive, per 261.23(a)(2), (3) & (4) [] Non-WW only [] 1 3 [] Other Reactive, per 261.23(a)(1) [] ww [] Non-WW 1 [] Non-WW Unexploded Ordnance, Emergency Response [] WW 1 3 5 [] [] D004 Arsenic [] WW [] Non-WW 1 2 4 [] WW [] Non-WW [] D005 Barium 1 [] D006 [] WW [] Non-WW 1 2 3 4 [] Cadmium Cadmium Containing Batteries [] Non-WW only [] [] WW Chromium [Non-WW 3 D007 D008 [] WW [] Non-WW [] Lead 1 2 3 4 6 Lead Acid Batteries [] Non-WW only [] 2 3 6

Manifest No. <u>TL8493239</u>

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	,	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009	Low Mercury, less than 260 mg/kg Mercury High Mercury Organic Subcategory High Mercury Inorganic Subcategory Selenium Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D 2,4,5-TP (Silvex) Benzene Carbon tetrachloride Chlordane Chlorobenzene Chloroform o-Cresol m-Cresol p-Cresol Cresol 1,4-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethylene 2,4-Dunitrotoluene	[] ww [] Non-ww [] Non-ww only [] Non-ww only [] ww [] Non-ww [] ww [] Won-ww	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 6 6 1 2 3 4 6
	[] D031 [] D032 [] D033 [] D034 [] D035 [] D037 [] D037 [] D038 [] D039 [] D040 [] D041 [] D042	Heptachlor (and its epoxide) Hexachlorobenzene Hexachlorobenzene Hexachlorobetane Methyl ethyl ketone Nitrobenzene Pentachlorophenol Pyridine Tetrachloroethylene Trichloroethylene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Vinyl Chloride	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVEN	COLUMN 2: WASTE CODE / CONSTITUENTS [] F002 [] F003 [] F004 [] F0	COLUMN 3: WASTEWATER/ NON-WASTEWATER 05 [] WW [] NON-WW	COLUMN 4: HANDLING CODE 3 4 5 6
	1. ALL F001- 2. Acetone 3. Benzene 4. n-Butyl a 5. Carbon di 6. Carbon te 7. Chloroben 8. o-Cresol 9. m-Cresol distinguis p-cresol) 10. p-Cresol distinguis m-cresol) 11. Cresol (sum of o- p-cresol)		enzene [] 26. anol (F005 [] 27. [] 28. anol [] 29. anol [] 30. [] 31. aloride [] 32. alteride [] 32. alteride [] 33. alteride [] 33. anol [] 33.	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1

SECTION III. CALIFORNIA LIST WASTES COLUMN 1: COLUMN 2: COLUMN 3: COLUMN 4: LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER Hazardous waste containing one or more of the following [] WW [] Non-WW California List constituents: ALL CALIFORNIA LIST CONSTITUENTS Liquids with nickel greater than or equal to 134 mg/l [] Liquids with thallium greater than or equal to 130 mg/l , "L [] Liquids with PCB's > or = 50 ppm: [] Waste containing HOC's > or = 1,000 mg/kg SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES) COLUMN 1: COLUMN 2: COLUMN 3: COLUMN 4: LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER [] WW [] Non-WW 4 5 6 [] Non-WW [] WW [] Non-WW [] Non-WW [] WW [] Non-WW [] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET. CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND

Date:

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facılıty would treat organic or ınorganic aqueous wastes and dıscharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

М	LEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB	No 2050-0039
4	UNIFORM HAZARDOUS 1. Generator's US EPA ID No. WASTE MANIFEST 1. Generator's US EPA ID No. Manifest Document No. IND 0 4 0 8 8 8 9 9 2 000 i 7 of 1 Illinois lateral life of 1 Ill	on in the shaded areas is not by Federal law, but is required by w.
$\ $	3 da Mora Rights Labadin Hashway Group Location If Different A. Illinois Manifest Do	cument Number
П		38 FEE PAID IF APPLICABLE
ı	Westmont, IL 60559 Gary, IN 46406 B? Generator's IL 60559 ID Number	
	4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 5. Transporter 1 Company Name 6. US EPA ID Number ID Number ID Number	1/1/8/174304
	Clean Hy rooms Env. Services Inc. MAD(239,32225) D. Transporter's Phone	73,118,40-1800
	7. Transporter 2 Company Name 8. US EPA ID Number E. Transporter's ID Number	The subsequents of the second
	9. Designated Facility Name and Site Address 10. US EPA ID Number F: Transporter's Phone	(原理)的特殊學學
	1 44000 0 L 04 T-1 1 3	1 6 0 0 0 0 5 1
İ	11800 South Stony Island Ave Chicago, IL 60617	
l	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Total	Unit Waste No.
G	a. WASTE CORROSTVE LITOUTD ACTOR TNORGANTO N.O.S. No. Type Quantity	Wt/Vol EPA HW Number
E	(buildite Acid), 0, 0x3204, 11	K 0 6 2
N E	$(X) \cdot (T \cdot T) \cdot (Y \cdot Y \cdot Y \cdot Y \cdot Y \cdot Y \cdot Y \cdot Y \cdot Y \cdot $	
R	b.	EPA HW Number
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R		76.74.3
İ	d.	EPA HW Number

		Fr. D. C. sense
ı	J. Additional Description for Materials Listed Above 11a CH144188B D002 D006 D007 D008	Wastes Listed Above
	11a CH144188B D002, D006, D007, D008	
١		
l		1996年
	15. Special Handling Instructions and Additional Information	wo# NB190163
	•	
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway	
П	according to applicable international and national government regulations.	
l	If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the deg be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me whi	ch minimizes the present
П	and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize select the best waste management method that is available to me and that I can afford.	
Ц	Printed/Typed Name 1500 Figurature	Month Day Year
4	MY DY US. FACUSTY of Augustavore De To	08/17/99
T	17. Transporter 1 Ackrowledgement of Receipt of Materials Printed/Typed Name Signature	Month Day Year
N	Scott Kosh LK	081/1799 8
B	18. Transporter 2 Acknowledgement of Receipt of Materials	Date
ř	Printed/Typed Name Signature	Month Day Year
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.	19. Discrepancy Indication Space 13-918001999	ا ا
Ā	•	
!	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.	Date
	Printed/Typed Name Signature	Month Day Year
_1	his Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the	e Anency Feiture to provide
TI	als information may result in a civil penalty spainst the owner or operator not to exceed \$25,000 per day af violation. Falsification of this information may result in a civil penalty spainst the owner or operator not to exceed \$25,000 per day af violation. Falsification of this information may result.	o rigority. I dilate up provide

Manifest No. ILS493338

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USB THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH D043

COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3: WASTEWATER/ NON-WASTEWATER							-	
Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC) Corrosives	_	j	Non-WW c	nly	У	1 1A 1	2	3 3	4 6 4	6
Reactive Sulfide, per 261.23(a)(5) Reactive Cyanide, per 261.23(a)(5) Explosive, per 261.23(a)(6); (7) & (8) Water Reactive, per 261.23(a)(2), (3) & (4) Other Reactive, per 261.23(a)(1) Unexploded Ordnance, Emergency Response Arsenic Barium]]	WW [WW non WW [WW [WW [] 1 1 1 1 1	Non-WW Non-WW Y Non-WW Non-WW Non-WW	1 1 1 1 1 1	3 2 2 2 3 2	4 4 3 3 4 3 3	5 4 4 4 5 4	6 6 6 6 6
Cadmium Cadmium Containing Batteries Chromium	_]	WW D	ր Մ	Non-WW Y	1) ₂ 3 2	3 6 3	4	6
	WASTE CODE / SUBCATEGORY Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC) Corrosives Reactive Sulfide, per 261.23(a) (5) Reactive Cyanide, per 261.23(a) (5) Explosive, per 261.23(a) (6), (7) & (8) Water Reactive, per 261.23(a) (2), (3) & (4) Other Reactive, per 261.23(a) (1) Unexploded Ordnance, Emergency Response Arsenic Barium Cadmium Cadmium Containing Batteries	WASTE CODE / SUBCATEGORY Ignitables, except High TOC subcategory [High TOC Ignitable Liquids Subcategory [(Greater than or equal to 10% TOC) Corrosives [Reactive Sulfide, per 261.23(a)(5) [Reactive Cyanide, per 261.23(a)(5) [Explosive, per 261.23(a)(6); (7) & (8) [Water Reactive, per 261.23(a)(2), (3) & (4) [Other Reactive, per 261.23(a)(1) [Unexploded Ordnance, Emergency Response [Arsenic [Barium [Cadmium [Cadmium Containing Batteries [WASTE CODE / SUBCATEGORY Ignitables, except High TOC subcategory [] High TOC Ignitable Liquids Subcategory [] (Greater than or equal to 10% TOC) Corrosives [] Reactive Sulfide, per 261.23(a)(5) [] Exaplosive, per 261.23(a)(6), (7) & (8) [] Water Reactive, per 261.23(a)(2), (3) & (4) [] Other Reactive, per 261.23(a)(1) [] Unexploded Ordnance, Emergency Response [] Arsenic [] Barium [] Cadmium [] Cadmium [] Cadmium []	WASTE CODE / SUBCATEGORY WASTEW NON-WASTE NON-WASTE NON-WASTE NON-WASTE WASTEW NON-WASTE WASTEW NON-WASTE NON-WASTE WASTEW NON-WASTE WASTEW NON-WASTE [] WW [] WW [] WW [] WW [] WW [] WW [] WW [] Waster than or equal to 10% TOC) [] WW []	WASTE CODE / SUBCATEGORY WASTEWAT NON-WASTEWAT NON-WASTEWAT High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC) Corrosives Reactive Sulfide, per 261.23(a)(5) (Reactive Cyanide, per 261.23(a)(5) (Explosive, per 261.23(a)(6), (7) & (8) Water Reactive, per 261.23(a)(2), (3) & (4) Water Reactive, per 261.23(a)(1) (Diexploded Ordinance, Emergency Response Arsenic Barium Cadmium Cadmium Cadmium Cadmium Cadmium Containing Batteries WW [] WW SI WASTEWAT NON-WASTEWAT NON-W	WASTE CODE / SUBCATEGORY WASTEWATER/ NON-WASTEWATER Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC) Corrosives Reactive Sulfide, per 261.23(a) (5) Reactive Cyanide, per 261.23(a) (5) Explosive, per 261.23(a) (6), (7) & (8) Water Reactive, per 261.23(a) (2), (3) & (4) Water Reactive, per 261.23(a) (1) Unexploded Ordnance, Emergency Response Arsenic Barium Cadmium Cadmium Cadmium Cadmium Containing Batteries WW [] Non-WW Non-WW Non-WW Non-WW Non-WW Non-WW Non-WW Cadmium Containing Batteries [] WW [] Non-WW Non-WW Non-WW Non-WW Non-WW Non-WW Non-WW Cadmium Containing Batteries	WASTE CODE / SUBCATEGORY WASTEWATER/ NON-WASTEWATER Ignitables, except High TOC subcategory [] WW [] Non-WW 1 High TOC Ignitable Liquids Subcategory [] Non-WW only 1A (Greater than or equal to 10% TOC) Corrosives [] WW [] Non-WW 1 Reactive Sulfide, per 261.23(a) (5) [] WW [] Non-WW 1 Reactive Cyanide, per 261.23(a) (5) [] WW [] Non-WW 1 Explosive, per 261.23(a) (6), (7) & (8) [] WW [] Non-WW 1 Water Reactive, per 261.23(a) (2), (3) & (4) [] Non-WW only 1 Other Reactive, per 261.23(a) (1) [] WW [] Non-WW 1 Unexploded Ordnance, Emergency Response [] WW [] Non-WW 1 Arsenic [] WW [] Non-WW 1 Barium [] WW [] Non-WW 1 Cadmium Containing Batteries [] Non-WW only 2	WASTE CODE / SUBCATEGORY WASTEWATER/ NON-WASTEWATER Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC) Corrosives Reactive Sulfide, per 261.23(a) (5) Reactive Cyanide, per 261.23(a) (5) Explosive, per 261.23(a) (6), (7) & (8) Water Reactive, per 261.23(a) (2), (3) & (4) Water Reactive, per 261.23(a) (1) Unexploded Ordnance, Emergency Response Waster Reactive Waster Reactive, per 261.23(a) (1) Way Waster Reactive, per 261.23(a) (2), (3) & (4) Waster Reactive, per 261.23(a) (1) Way Waster Reactive, per 261.23(a) (2), (3) & (4) Waster Reactive, per 261.23(a) (1) Way Waster Reactive, per 261.23(a) (2), (3) & (4) Waster Reactive, per 261.23(a) (1) Way Waster Reactive, per 261.23(a) (2), (3) & (4) Way Waster Reactive, per 261	WASTE CODE / SUBCATEGORY WASTEWATER/ NON-WASTEWATER Ignitables, except High TOC subcategory [] WW [] Non-WW 1 2 3 High TOC Ignitable Liquids Subcategory [] Non-WW only 1A 3 (Greater than or equal to 10% TOC) Corrosives [] WW [] Non-WW 1 2 3 Reactive Sulfide, per 261.23(a)(5) [] WW [] Non-WW 1 3 4 Reactive Cyanide, per 261.23(a)(5) [] WW [] Non-WW 1 3 4 Explosive, per 261.23(a)(6); (7) & (8) [] WW [] Non-WW 1 2 3 Water Reactive, per 261.23(a)(2), (3) & (4) [] Non-WW only 1 2 3 Other Reactive, per 261.23(a)(1) [] WW [] Non-WW 1 2 3 Unexploded Ordnance, Emergency Response [] WW [] Non-WW 1 2 3 Barium [] WW [] Non-WW 1 2 3 Cadmium Cadmium Containing Batteries [] WON-WW only 2 3 6	WASTE CODE / SUBCATEGORY WASTEWATER/ NON-WASTEWATER Ignitables, except High TOC subcategory [] WW [] Non-WW 1 2 3 4 High TOC Ignitable Liquids Subcategory [] Non-WW only 1A 3 6 (Greater than or equal to 10% TOC) Corrosives [] WW [] Non-WW 1 2 3 4 Reactive Sulfide, per 261.23(a)(5) [] WW [] Non-WW 1 3 4 5 Reactive Cyanide, per 261.23(a)(5) [] WW [] Non-WW 1 3 4 5 Explosive, per 261.23(a)(6), (7) & (8) [] WW [] Non-WW 1 2 3 4 Water Reactive, per 261.23(a)(2), (3) & (4) [] Non-WW only 1 2 3 4 Other Reactive, per 261.23(a)(1) [] WW [] Non-WW 1 2 3 4 Unexploded Ordnance, Emergency Response [] WW [] Non-WW 1 2 3 4 Barium [] WW [] Non-WW 1 2 3 4 Cadmium [] WW [] Non-WW 1 2 3 4 Cadmium Containing Batteries [] Non-WW only 2 3 6

Inifest No. <u>TL8493238</u>

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / NAME		COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] []	Low Mercury, less than 260 mg/kg M High Mercury Organic Subcategory High Mercury Inorganic Subcategory	(]	Non-WW only	1 2 3 4 2 3 4 2 3 4
	[] D010 [] D011	Selenium	[]		1 2 3 4 6 1 2 3 4 6
	[] D011 [] D012	Silver Endrin	[]	• • •	2 3 4 5 6
	[] D013	Lindane	ii		2 3 4 5 6
	[] D014	Methoxychlor	[]	WW [] Non-WW	2 3 4 5 6
	[] D015	Toxaphene	[]		2 3 4 5 6
	[] D016	2,4-D	[]		2 3 4 5 6
	[] D017	2,4,5-TP (Silvex)	[]		2 3 4 5 6 1 2 3 4 6
	[] D018 [] D019	Benzene Carbon tetrachloride	[]		1 2 3 4 6
	[] D020	Chlordane	ii	• •	1 2 3 4 6
	[] D021	Chlorobenzene	[]	WW [] Non-WW	1 2 3 4 6
	[] D022	Chloroform	[]	WW [] Non-WW	1 2 3 4 6
	[] D023	o-Cresol	[]		1 2 3 4 6
	[] D024	m-Cresol	[]		1 2 3 4 6
	[] D025	p-Cresol	[] · []	WW [] Non-WW WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D026 [] D027	Cresol 1.4-Dichlorobenzene	[]	• •	1 2 3 4 6
	[] D028	1.2-Dichloroethane	ij	WW [] Non-WW	1 2 3 4 6
	[] D029	1,1-Dichloroethylene	[]	WW [] Non-WW	1 2 3 4 6
	[] D030	2,4-Dinitrotoluene	[]	WW [] Non-WW	1 2 3 4 6
	[] D031	Heptachlor (and its epoxide)	[]	WW [] Non-WW	1 2 3 4 6
	[] D032	Hexachlorobenzene Hexachlorobutadiene	[]	WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D033 [] D034	Hexachloroethane	[]	WW [] Non-WW WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D035	Methyl ethyl ketone	Ĺi	WW [] Non-WW	1 2 3 4 6
	[] D036	Nitrobenzene	Ĺĵ	WW [] Non-WW	1 2 3 4 6
	[] D037	Pentachlorophenol	[]	WW [] Non-WW	1 2 3 4 6
	[] D038	Pyridine	[]	WW [] Non-WW	1 2 3 4 6
	[] D039	Tetrachloroethylene	[]	WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D040 [] D041	Trichloroethylene 2,4,5-Trichlorophenol	[]		1 2 3 4 6
	[] D041	2,4,6-Trichlorophenol		WW [] Non-WW	1 2 3 4 6
	[] D043	Vinyl Chloride	[]	WW [] Non-WW	1 2 3 4 6
SECTION II.	SPENT SOLVE	NT WASTES FOO1 THROUGH FOO5			
COLUMN 1:		COLUMN 2:		COLUMN 3:	COLUMN 4:
LINE ITEM		WASTE CODE / CONSTITUENTS		WASTEWATER/	HANDLING CODE
SEE MANIFEST		•		NON-WASTEWATER	
	[] F001	[] F002 [] F003 [] F004	[] F005 []	WW [] Non-WW	3 4 5 6
	7. Chlorober 8. o-Cresol 9. m-Cresol distinguis p-cresol) 10. p-Cresol distinguis m-cresol)	[] 13. o-Di	yl acetate yl benzene yl ether outyl alcohol nanol nylene chloride nyl ethyl ketone nyl isobutyl ket robenzene itropropane (F00	[] 26. [] 27. [] 28. [] 29. [] 30. [] 31. one [] 32.	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isomers (sum of o-, m-, and p-xylene)
	p-cresol)				

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. ILS493238

SECTION III. CALIFORNIA LIST WASTES COLUMN 1: COLUMN 2: COLUMN 3: COLUMN 4: LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER Hazardous waste containing one or more of the following [] WW [] Non-WW 1 2 3 4 5 6 California List constituents: [] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/l Liquids with thallium greater than or equal to 130 mg/l [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W.	COLUMN 3: ASTEWATER/ -WASTEWATER	CO	LUM		
HA.	K062	[]	ww	Non-ww	3	4	(<u>s</u>)	6
		[]	ww	[] Non-WW	3	4	5	6
		[]	ww	[] Non-WW	3	4	5	6
		[]	ww	[] Non-WW	3	4	5	6
		[]	ww	[] Non-WW	3	4	5	6

- [] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
- [] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Drint Name

He mit for 650 Tades Date

Quin (

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

FOR SHIPMENT OF HAZARDOUS PO. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 AND SPECIAL WASTE IL532-0610 State Form LPC 62 8/81 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No 2050-0039 Manifest Document No 2. Page 1 Information in the shaded areas is not required by Federal law, but is required by Illinois law. **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. **WASTE MANIFEST** of) 9*001* A. Illinois Manifest Document Number 3. Copyetor i Name en i Name i Location If Different **414 Plaza Drive** Suite 106 6499 Industrial Highway B. Generator's: Westmont, IL 60559 Gary, IN 46406 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 Westmont, ID Number Transporter's 5. Transporter 1 Company Name 6. US EPA ID Number 039377250 LEMHALBARS Sow. SERVICE D. Transporter's Phone (US EPA ID Number E. Transporter's 7. Transporter 2 Company Name 8 D Number F. Transporter's Phone (1997) 9. Designated Facility Name and Site Address US EPA ID Number G. Facility's IL. 6000 Clean Harbors Services Inc 11800 South Stony Island Ave H. Facility's Phone (Chicago, II. 60617

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 잋 12. Containers 13 Total Unit Waste No. Туре No. Quantity Wt∕∖∩i G EPA HW Number rgency a. Е HAZARDOUS WASTE LIQUID, N.O.S. , 9, NA3082 1 D 0 0 0 N 7,5,0D,0 1 E Response **EPA HW Number** b. R EPA HW Number 0 வ R 217 / 782-7860 **在我们直接**。 EPA HW Number đ. K Handling Codes for Wastes Listed Above in Item #14 J. Additional Description for Materials Listed Above and the 11a CH144190B Market Part Land Ball The second of th National Response 15. Special Handling Instructions and Additional Information wo# NB190474 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Center 窋 Printed/Typed Name Agent toct the G500 - NI) US Asignature Month Day Year 800 / 424-8802 HICKNAY Grow 17. Transporter 1 Acknowledgement of Regeipt of Materials Date Day fin ed/Typed Name Signature Year ANSPORTER WAVO roms 18. Transporter 2 Acknowledgement of Receipt of Materials Date 윽 Printed/Typed Name Signature Month Day Year

2

202/426-2675

Date

Year

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Printed/Typed Name Signature

19. Discrepancy Indication Space

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section this Information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years This form has been approved by the Forms Management Center. be submitted to the information may result

Manifest No. IL 8493250

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ NON-WASTEWATER	н		LUMN		
	[]	D001 D001	Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[[]]	WW [] Non-WW Non-WW only	1 17	2	3	4 6	6
	[]	D002 D003	Corrosives Reactive Sulfide, per 261.23(a)(5)	ſ		WW [] Non-WW	1	2	3	4	6
			Reactive Cyanide, per 261.23(a)(5) Explosive, per 261.23(a)(6), (7) & (8)	[[-	WW [] Non-WW WW [] Non-WW	1	3	4	5	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4) Other Reactive, per 261.23(a)(1)	f []	Non-WW only WW [] Non-WW	1	2	3	4	6
	[]	[] D004 D005	Unexploded Ordnance, Emergency Response Arsenic Barium	[[]	WW [] Non-WW WW [] Non-WW	1 1	2 2	4 3 3	5 4 4	6 6
1	Ü	D006 [] []	Cadmium Cadmium Containing Batteries	į.	•	WW [] Non-WW Non-WW only	1	2	3	4	6
114	1/3	D007	Chromium	[-	WW Non-WW	Î)2	3	4	6
		[]	Lead Lead Acid Batteries	Į Į	-	WW [] Non-WW Non-WW only	1 2	2 3	3 6	4	6

p-cresol)

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
SEE MANIFEST	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chlorobenzene [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene [] D029 1,1-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotolune [] D031 Heptachlor (and its epoxide) [] D031 Heptachlor (and its epoxide)		1 2 3 4 6 1 2 3 3 4 6 1 1 2 3 3 4 6 1 1 2
	[] D033 Hexachlorobutadiene [] D034 Hexachloroethane [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachlorophenol [] D038 Pyridine [] D039 Tetrachloroethylene [] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTITUENTS [] F001 [] F002 [] F003 [] F004 [] F005	COLUMN 3: WASTEWATER/ NON-WASTEWATER [] WW [] Non-WW	COLUMN 4: HANDLING CODE 3 4 5 6
	1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobenze 3. Benzene [] 14. 2-Ethoxyethanol only) 5. Carbon disulfide [] 15. Ethyl acetate 6. Carbon tetrachloride [] 16. Ethyl benzene 7. Chlorobenzene [] 17. Ethyl ether 8. o-Cresol [] 18. Isobutyl alcoho 0 distinguish from [] 20. Methylene chlor p-cresol) [] 21. Methyl ethyl ke distinguish from [] 22. Methyl isobutyl distinguish from [] 23. Nitrobenzene m-cresol) [] 24. 2-Nitropropane (sum of o-, m- and	ene	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES. INC.

TI 8492276

LAND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1	Manifest No.
SECTION III.	CALIFORNIA LIST WASTES	•
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE NON-WASTEWATER
	Hazardous waste containing one or more of the fol California List constituents:	llowing [] WW [] Non-WW 1 2 3 4 5 6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to [] Liquids with thallium greater than or equal [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>	
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F	039, K-, U-, AND P-CODES)
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE NON-WASTEWATER
		[] WW [] Non-WW 3 4 5 6
		[] WW [] Non-WW 3 4 5 6
		[] WW [] Non-WW 3 4 5 6
		[] WW [] Non-WW 3 4 5 6
		[] WW [] Non-WW 3 4 5 6
[] CHECK HER	E IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. CORE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS ELL AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COM	PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING

SECTION V. CONTACT NAME AND DATE Highway Group

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

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HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

P.O. BOX 19276 State Form LPC 62 8/81

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IL532-0610 LEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039 Manifest 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS Document No WASTE MANIFEST 00014 0408 889 3. G6560or Envidues and indiaghavay Group A. Illinois Manifest Document Number Location If Different FEE PAID 8493265 414 Plaza Drive IF APPLICABLE Suite 106 6499 Industrial Highway B. Generator's IL. Westmont, IL 60559 Gary, IN 46406 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 IN 46406 C.: Transporter's US EPA ID Number Company Name ID Number / Mars 0393222 D. Transporter's Phone 7 7. Transporter 2 Company Name US EPA ID Number E. Transporter's F. Transporter's Phone () 9. Designated Facility Name and Site Address 10. US EPA ID Number G. Facility's IL ID Number 10 13 Clean Harbors Services Inc 11800 South Stony Island Ave Chicago, IL 60617 11 16 10 10 10 10 15 11 H. Facility's Phone (773) 646-6202 ⊆ 12. Containers 13. 14. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 40 L 33 V Ū Total Unit Waste No." No. Type Wt/Vol ₹ Quantity G EPA HW Number a. Selich E HAZARDOUS WASTE LIQUID, N.O.S., 9, NA3082 D 0 0 N 的問題 E mesponse EPA HW, Number b. R т EPA HW Number 0 at - - L R 21///82-7860 - 11 × 15 30 20 d. . EPA HW Number & Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above and Lee Transport of the American · 参加以持个公司、[24] 以及东西城市等级 ≓e Brighton with an or our of the brighten to the a star a star a property National Response Center 15. Special Handling Instructions and Additional Information wo# NB190474 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date 괊 Soo Indestrue Signature 800 / 424-8802 Highman 17. Transporter 1 Acknowledgement of Receipt of Materials Date RANSPORTER Printed/Typed Name Signature 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Day 익 Signature Month Year 202 / 426-2675 19. Discrepancy Indication Space -9180019999 A 20. Facility Owner or Operafor: Certification of receipt of hazardous materials covered by this manifest except as noted in item,19. Date Printed/Typed Name Month Day Year Signature

Manifest No. 118493265

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45 In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. "Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER NON-WASTEWAT	1			umn I ng		
	[]	D001 D001]]]]	ww [] No Non-ww only		1 1A 1	2	3 3	4 6	6
	()	D003 [] [] [] [] [] [] D004	Reactive Sulfide, per 261.23(a)(5) Reactive Cyanide, per 261.23(a)(5) Explosive, per 261.23(a)(6), (7) & (8) Water Reactive, per 261.23(a)(2), (3) & (4) Other Reactive, per 261.23(a)(1) Unexploded Ordnance, Emergency Response Arsenic Barlum] [] [] []]	WW [] NO. WW [] NO. WW [] NO. NO.WW Only WW [] NO.	n - WW n - WW n - WW n - WW n - WW	1 1 1 1 1 1	3 3 2 2 2 3 2	4 4 3 3 4 3 3	5 5 4 4 5 4 4	6 6 6 6 6 6 6
ILA_) j	D006 [] [] D007 D008 [] []	Cadmium Cadmium Containing Batteries Chromium Lead Lead Acid Batteries	-]	WW [] Non-Non-WW only	n-WW	1 2 1 2 2	2 3 2 2 3	3 6 3 3 6	4 4	6

Manifest No. 18493265

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
[] D009	Low Mercury, less than 260 mg/kg Mercury High Mercury Organic Subcategory High Mercury Inorganic Subcategory	[] WW [] Non-WW [] Non-WW only [] Non-WW only	1 2 3 4 2 3 4 2 3 4
[] D010	Selenium	[] WW [] Non-WW	1 2 3 4 6
[] D011	Silver	[] WW [] Non-WW	1 2 3 4 6
[] D012	Endrin	[] WW [] Non-WW	2 3 4 5 6
[] D013	Lindane	[] WW [] Non-WW	2 3 4 5 6
[] D014	Methoxychlor	[] WW [] Non-WW	2 3 4 5 6
[] D015	Toxaphene	[] WW [] Non-WW	2 3 4 5 6
() D016	2,4-D	[] WW [] Non-WW	2 3 4 5 6
[] D017	2,4,5-TP (Silvex)	[] WW [] Non-WW	2 3 4 5 6
[] D018	Benzene	[] WW [] Non-WW	1 2 3 4 6
[] D019	Carbon tetrachloride	[] WW [] Non-WW	1 2 3 4 6
[] D020	Chlordane	[] WW [] Non-WW	1 2 3 4 6
[] D021	Chlorobenzene	[] WW [] Non-WW	1 2 3 4 6
[] D022	Chloroform	[] WW [] Non-WW	1 2 3 4 6
[] D023		[] WW [] Non-WW	1 2 3 4 6
[] D024	m-Cresol	[] WW [] Non-WW	1 2 3 4 6
[] D025	p-Cresol	[] WW [] Non-WW	1 2 3 4 6
[] D026	Cresol	[] WW [] Non-WW	1 2 3 4 6
[] D027	1,4-Dichlorobenzene	[] WW [] Non-WW	1 2 3 4 6
[] D028	1,2-Dichloroethane	[] WW [] Non-WW	1 2 3 4 6
[] D029	1,1-Dichloroethylene	[] WW [] Non-WW	1 2 3 4 6
[] D030	2,4-Dinitrotoluene	[] WW [] Non-WW	1 2 3 4 6
[] D031	Heptachlor (and its epoxide)	[] WW [] Non-WW	1 2 3 4 6
[] D032	Hexachlorobenzene	[] WW [] Non-WW	1 2 3 4 6
[] D033	Hexachlorobutadiene	[] WW [] Non-WW	1 2 3 4 6
[] D034	Hexachloroethane	[] WW [] Non-WW	1 2 3 4 6
[] D035	Methyl ethyl ketone	[] WW [] Non-WW	1 2 3 4 6
[] D036	Nitrobenzene	[] WW [] Non-WW	1 2 3 4 6
[] D037	Pentachlorophenol	[] WW [] Non-WW	1 2 3 4 6
[] D038	Pyridine	[] WW [] Non-WW	1 2 3 4 6
[] D039	Tetrachloroethylene	[] WW [] Non-WW	1 2 3 4 6
[] D040	Trichloroethylene	[] WW [] Non-WW	1 2 3 4 6
[] D041	2,4,5-Trichlorophenol	[] WW [] Non-WW	1 2 3 4 6
[] D042	2,4,6-Trichlorophenol	[] WW [] Non-WW	1 2 3 4 6
[] D043	Vinyl Chloride	[] WW [] Non-WW	1 2 3 4 6
SECTION II. SPENT SOLV COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
[] F001	[] F002 [] F003 [] F004 [] F005	[] WW [] Non-WW	3 4 5 6
[] 6. Carbon [] 7. Chlorobe [] 8. o-Creso distingu p-cresol [] 10. p-Creso distingu m-cresol [] 11. Cresol	[] 13. o-Dichlorobenz [] 14. 2-Ethoxyethano only) disulfide [] 15. Ethyl acetate etrachloride [] 16. Ethyl benzene enzene [] 17. Ethyl ether [] 18. Isobutyl alcoh [] 19. Methanol ash from [] 20. Methylene chlo [] 21. Methyl ethyl k [] (difficult to [] 22. Methyl isobuty ish from [] 23. Nitrobenzene	Sene	Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane 1,1,2-Trichloro- 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. TL8493265

SECTION III.	CALIFORNIA LIST WASTES										
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W.	COLUMN ASTEWA WASTE	-		HAN	OLII OLUI			;
	Hazardous waste containing one or more of the following California List constituents:	[]	ww	[]	Non-W	1 1	2	3	4	5	6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg, [] Liquids with thallium greater than or equal to 130 mg [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>										
SECTION IV. o	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-,	<u>u-</u>	, ANI	P-C0	DES)						
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		WA	COLUMN ASTEWA WASTE	TER/		CO HANI	DLIN			'
		[]	ww	[]	Non - WW	•	3	4	5	6	
		()	ww	[]	Non-WW	ı	3	4	5	6	
.		[]	ww	[]	Non-WW		3	4	5	6	
		[]	WW	[]	Non-WW	1	3	4	5	6	
		[]	WW	[]	Non-WW		3	4	5	6	
[] CHECK HER	E IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE LE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	.]	DENT	IFY F	39 CON	STITU					ETIN
	NTACT NAME AND DATE FREO G. KRIKAU	Da	٠	E	<u> </u>	18	-9	9			

KEY TERMS/DEFINITIONS

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State Form LPC 62 8/81

	(Form designed for use on elit	- (- 1 · · ·) / / · · · /	EPA Form 8700-22	2 (Nev. 0-03)	TOITI AP		No 2050	7-000-9
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414 Plaza Suite 106 Westmont, 4.*24 HOUR EME	5 , IL 60559 RGENCY AND SPILL ASS	Group Loca	tion if Different	ghway	A. Illinois M IL. 8 B. Generato ID Numb C. Transpor	1937	64	Number FEE PAID IF APPLICABL
Cla H	abour Env	Servi Inc	US EPA ID NUM	1250	D. Transpor	er (A)	() (0180743
7. Transporter 2 Co	ompany Name	8.	US EPA ID Num	ber	E. Transpor ID Numb	er <u>ssk.</u>	a S	Manaka Marka M
· ·	lity Name and Site Address		US EPA ID Num	ber	F. Transpor G. Facility's	IL ,) W. A. TESSE & S.
Clean Har 11800 Sou Chicago,	rbors Services I ith Stony Island IL 60617	inc i Ave	111000060	8471	H. Facility's			0 10 10 10 15 46-6202
1. US DOT Descri	iption (Including Proper Sh	ipping Name, Hazan	d Class, and ID Number)	12. Conta No.	, 7	13. otal antity	14. Unit Wt/Vol	Waste No.
HAZARDOUS	S WASTE LIQUID,	N.O.S. , 9,	NA3082	0011	_		7	EPA HW Number
<u> </u>				0.0.1	FTOS	0 <u>00</u>	0	EPA HW Number
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. Special Handling	g Instructions and Addition	al Information					wo#	NB190474
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B. GENERATOR'S of proper shipping in according to apply if I am a large quite economically properties and future threat select the best were printed/Typed No. Transporter, 1 According to the printed/Typed No. 3. Transporter 2 According to the printed/Typed No. 1 according to the printed/Typed No. 2 accordi	name and are classified, pacilicable international and nativulantity generator. I certify the practicable and that I have so to human health and the en aste management method the large. RIKAU Mgcw. cknowledgement of Receiptame.	ked, marked, and labe onal government regul at I have a program in selected the practicable vironment; OR, if I am at is available to me at the content of Materials	eled, and are in all respects in pations. n place to reduce the volume are method of treatment, storage in a small quantity generator, I hand that can afford. Signature	proper condition and toxicity of wa or disposal cur	for transport by aste generated rently available	highway to the deg to me whi	ch minirny wast	Date Month Pay Yea Date Month Day Yea Date Month Day Yea Date
8. GENERATOR'S of proper shipping in according to applif I am a large quibe economically pand future threat select the best was printed/Typed No. 2. Transporter 1 According to the printed/Typed No. 3. Transporter 2 According to the printed/Typed No. 2. Discrepancy India.	name and are classified, pacilicable international and naticularity generator, I certify the practicable and that I have so to human health and the enaste management method the large RIKAU Agust cknowledgement of Receiptame	ked, marked, and labe onal government regul at I have a program in selected the practicable wironment; OR, if I amant is available to me at the content of Materials I Suppose the selected of Materials Of Materials	eled, and are in all respects in pations. n place to reduce the volume are method of treatment, storage in a small quantity generator, I hand that can afford. Signature	proper condition and toxicity of war, or disposal cur have made a goo	for transport b	highway to the deg to me whi minimize	ch minirny wast	Date Month Pay Yea Date Month Day Yea Date Month Day Yea Date

SECTION I.

Manifest No. 118493064

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEPINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., lla) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

CHARACTERISTIC WASTES DOOL THROUGH DO43

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR requiations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(l)(iv)(A): (l) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

5501101111	CIDIOIC		TO MIDIDE DOUL LIMOUN DO 13									
COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY		COLUM WASTEW NON-WAST	ATER/	HANDLI			LUMN 4: LING COI		
	[]	D001	Ignitables, except High TOC subcategory	t I	WW [Non-WW	1	2	3	4	6	
	[]	D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[]	Non-WW o	nly	1A		3	6		
	[]	D002	Corrosives	[]	WW (] Non-WW	1	2	3	4	6	
	[]	D003	Q, and an an an an an an an an an an an an an									
		[]	Reactive Sulfide, per 261.23(a)(5)	[]	WW [] Non-WW	1	3	4	5	6	
		[]	Reactive Cyanide, per '261.23(a')(5)	()	WW [] Non-WW	1	3	4	5	6	
		[]	Explosive, per 261.23(a)(6), (7) & (8)	()	WW [] Non-WW	1	2	3	4	6	
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW o	nly	1	2	3	4	6	
		[]	Other Reactive, per 261.23(a)(1)	[]	WW [] Non-WW	1	2	3	4	6	
		[]	Unexploded Ordnance, Emergency Response	[]	WW [] Non-WW	1	3	4	5	6	
	[]	D004	Arsenic	[]	WW [Non-WW	1	2	3	4	6	
	[]	D005	Barıum	[]	WW [Non-WW	1	2	3	4	6	
	[]	D006										
		[]	Cadmium	[]	WW [Non-WW	1	2	3	4	6	
. i \Lambda	,	[]	Cadmium Containing Batteries	[]	Non-WW o	nly	2	_3	6			
11 14	N	D007	Chromium	[]	WW 1/	Non-WW	1	2	3	4	6	
	K j	D008			7	-						
		[]	Lead	[]	ww [Non-WW	1	2	3	4	6	
		Ü	Lead Acid Batteries	[]	Non-WW o	-	2	3	6			

SECTION I. CHARACTERISTIC WASTES DO01-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / NAME	W	COLUMN 3: ASTEWATER/ -WASTEWATER	COLUMN HANDLING	
SEE MANIFEST	[] D009 [] [] [] []	Low Mercury, less than 260 mg/kg Me High Mercury Organic Subcategory High Mercury Inorganic Subcategory Selenium Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D 2,4,5-TP (Silvex) Benzene Carbon tetrachloride Chlordane Chlorobenzene Chloroform o-Cresol m-Cresol p-Cresol Cresol 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethylene 2,4-Dinitrotoluene Heptachlor (and its epoxide) Hexachlorobenzene	[] WW [] NON [] WW	[] Non-ww -ww only -ww only [] Non-ww	1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6
SECTION II.	[] D033 [] D034 [] D035 [] D036 [] D037 [] D038 [] D039 [] D040 [] D041 [] D042 [] D043	Hexachlorobutadiene Hexachloroethane Methyl ethyl ketone Nitrobenzene Pentachlorophenol Pyridine Tetrachloroethylene Trichloroethylene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Vinyl Chloride NT WASTES F001 THROUGH F005 COLUMN 2:	MW [] WW [] WW [] WW [] WW [] WW [] WW [] WW [] WW []	[] Non-WW [] Non-WW [] Non-WW [] Non-WW [] Non-WW [] Non-WW [] Non-WW [] Non-WW [] Non-WW [] Non-WW	1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3	4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6
LINE ITEM SEE MANIFEST	[] F001	WASTE CODE / CONSTITUENTS	W	ASTEWATER/ -WASTEWATER [] Non-WW	HANDLING	
[] 2 [] 3 [] 4 [] 5 [] 5 [] 7 [] 7 [] 8 [] 9	. Chlorober . o-Cresol . m-Cresol distinguis p-cresol) 0. p-Cresol distinguis m-cresol)	[] 13. o-Did	l acetate l benzene l ether utyl alcohol anol ylene chloride yl ethyl ketone yl isobutyl ketone	[] 26. [] 27. [] 28. [] 29. [] 30. [] 31. [] 32.	Pyridine Tetrachlor Toluene 1,1,1-Tric ethane 1,1,2-Tric ethane Trichloroe 1,2,2-trifl Trichlorom methane Xylene - m (sum of o-, p-xylene)	hloro- hloro- thylene hloro- uoroethane onofluoro- ixed isomers

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Man1fest No. 11849344

SECTION III.	CALIFORNIA LIST WASTES									
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN ASTEWA -WASTE	_	C(HAN)		MN 4 NG C		3
	Hazardous waste containing one or more of the following California List constituents:	[]	WW	[]	Non-WW	1 2	3	4	5	6
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg [] Liquids with thallium greater than or equal to 130 [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg		i.							
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-	. U-	ANI	D_P-C0	DES)					
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN ASTEWA WASTE	TER/	CO HANI		MN 4 NG C		;
		[]	ww	[]	Non-WW	3	4	5	6	
		[]	ww	[]	Non-WW	3	4	5	6	
		[]	ww	[]	Non-WW	3	4	5	6	
		[]	WW	[]	Non-WW	3	4	5	6	
		[]	ww	[]	Non-WW	3	4	5	6	
[] CHECK HE	RE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE RE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	r.	DENT	IFY F	39 CONST					ETING
SECTION V. CO	ONTACT NAME AND DATE			C	5 (5	a	3			
Print Name: _	FRED G. KRIKAU	Da	te: _	Ö	3-18		<i>'</i> 			

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

	State Form LPC 62 8/8			,,,,,,	COME WASTE	3/33
EASE TYPE (Form designed for use on elite (12	1. Generator's US EPA ID No.	700-22 (Rev. 6-89) Manifest	Form Appl 2. Page 1		No. 2050-0039 on in the shade	
UNIFORM HAZARDOUS WASTE MANIFEST	IND04088899	Document No.	of 1	required	by Federal law, b	ut is required by
3. Contract Name and Malling Active Gi	OUP Location If Different	21/0010			cument Numbe	er 🐮 - 🏋 - 🕾
414 Plaza Drive Suite 106	6499 Industria	Ui chuair	1911 × 84	1932	267 智	E PAID (* **) APPLICABLE
Westmont, TL 60559	Gary. TN 46406		B. Generator	's الم	0 0 27	0 0 00
4. *24 HOUR EMERGENCY AND SPILL ASSIST	ANCE NUMBERS 800-645-8265	5	ID Numbe	<u>"171/</u>	18 1001	17171717
5. Transporter 1 Company Name	6. US EPA IE	Number	C. Transport	er's Lef	W 018079	130 A
Clear HARDONS FILL Son	Wiles Jul. MATICES937	22250	D. Transport	er's Phon	e (7/8)8%	1/800
7. Transporter 2 Company Name	8. US EPA ID	Number	E. Transport	ers	राप्तः । १ जस्य म्हरूप	医脑膜镜
			ID Numbe		و و در	1 ¥e1,
9. Designated Facility Name and Site Address	10. US EPA ID	Number	F. Transport	er's Phon	e (😘) jesti.	4. 增长线
Clean Harbors Services Inc			G. Facility's I	Las	1600	0 0 5 1
11800 South Stony Island A					1600	
Chicago, IL 60617	ILD000				73 ⁾ 646-6	202 🧀
11. US DOT Description (Including Proper Shippin	ng Name, Hazard Class, and ID Numbe	er) 12. Conta		I3. otal	14. Unit 🔐 😘	المحمد
		No.		antity	Wt/Vol V	aste No.
a. UAZADDONG MACME I TOUTD N	0 C 0 MA2002	1			Selection in the select	HW Number
HAZARDOUS WASTE LIQUID, N.	U.B. , 9, MASWO2		سره احرب		1	1
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b.	ر بست میران میران				1 1 1 1 1 1	MV Number
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ender in the state of the state	大学的自然中华的工程和企业		61=	GA	Mov 8	
15. Special Handling Instructions and Additional In	tormation .				wo# NB1	90474
16. GENERATOR'S CERTIFICATION: I hereby decla proper shipping name and are classified, packed, according to applicable international and national if I am a large quantity generator, I certify that I be economically practicable and that I have select and future threat to human health and the environ select the best waste management method that is	marked, and labeled, and are in all respe- government regulations." lave a program in place to reduce the vo- ed the practicable method of treatment, so ment; OR, if I am a small quantity genera	cts in proper condition tume and toxicity of w torage, or disposal cu	for transport by aste generated rrently available	highway to the deg to me whi	ch minimizes th	ne present
Printed/Typed Name askut (\$	20 Sydustical Signature	01.11			Month	
-RED G. KRIKAU for: High	us Group Med	Month	in.		10161	1881
7. Transporter 1 Acknowledgement of Receipt of	Materials					Date
Printed/Typed Name	Signature, C	1/	J -		Month	Day Year
William L. GANGES	Whit.	e - hely	tricit		10181	1875
8. Transporter 2 Acknowledgement of Receipt of	Materials					Date
Printed/Typed Name	Signature				Month	Day Year
	<u>L</u>					
9. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of rece	ipt of hazardous materials covered by	his manifest except	as noted in iter	n 19. 🔏		Date
Printed/Typed Name	Signature		7	//	Month	Day Year
Agency is authorized to require, pursuant to Illanois Revise	ranco	04 and 1021, they this i	mormation be sub	Skerr mitted to th	ne Agency. Failur	1895

Manifest No.

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
 Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARAC	TERIST	CIC WASTES DOO1 THROUGH DO43										
COLUMN 1: LINE ITEM SEE MANIFEST		,	COLUMN 2: WASTE CODE / SUBCATEGORY			COLU WASTE NON-WAS	WA'	rer/			LUMN		
	[]	D001	Ignitables, except High TOC subcategory	ι]	WW	[]	Non-WW	1	2	3	4	6
	[]	D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	ĺ)	Non-WW	on:	ly	1A		3	6	
	[]	D002	Corrosives	Į]	WW	()	Non-WW	1	2	3	4	6
		t I	Reactive Sulfide, per 261.23(a)(5)	{]	WW]	Non-WW	1	3	4	5	6
		[]	Reactive Cyanide, per 261.23(a)(5)	į	}	WW	1	Non-WW	1	3	4	5	6
		[] a	Explosive, per 261.23(a)(6), (7) & (8)	[1	WW	1	Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	ſ]	Non-WW	on.	ly	1	2	3	4	6
		[]	Other Reactive, per 261(.23(a)(1)	[}	WW	1	Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	[J	WW !]	Non-WW	1	3	4	5	6
	[]	D004	Arsenic	[]	•	-	Non-WW	1	2	3	4	6
	[]	D005	Barium	[]	WW []	Non-WW	1	2	3	4	6
	[]	D006	, , , , , , , , , , , , , , , , , , ,						_	_			_
		[]	Cadmium	Į	i			Non-WW	1	2	3	4	6
11 1		[]	Cadmium Containing Batteries	ı.	ì	Non-WW		•	2	_3	6		_
	λŕ	D007	Chromium	ι]	MM 1	Ľ.	Non-WW		2	3	4	6
	£ }	D008	*3			/			_	_	_	_	_
		1 1	Lead	Į.	,	WW [-	Non-WW	1	2	3	4	6
			Lead Acid Batteries	(į	Non-WW	oni	У	2	3	6		

Man1fest No. [18493267

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / N			COLUMN WASTEWA NON-WASTE	TER/	COI HANDI	umn Ing	
	[] D009								
	[]	'Low Mercury, less than	n 260 mg/kg Mercur	γ []	WW []	Non-WW	1 2	3	4
	[]	High Mercury Organic		[]		-	2 3	4	
	[]	High Mercury Inorganie	C Subcategory	[]		•	2 3	4	_
	[] D010 [] D011	Selenium Silver		[]		Non-WW	1 2	3	4 6
	[] D011 [] D012	Endrin		[]	I I	Non-WW Non-WW	1 2 2 3	3 4	4 6 5 6
	[] D013	Lindane		ii	٠.		2 3	4	5 6
	[] D014	Methoxychlor		ii			2 3	4	5 6
	[] D015	Toxaphene	•	[]	WW []	Non-WW	2 3	4	5 6
	[] D016	2,4-D		[]	WW []	Non-WW	2 3	4	5 6
	[] D017	2,4,5-TP (Silvex)		[]		Non-WW	2 3	4	5 6
	[] D018 [] D019	Benzene		[]	1 1		1 2	3	4 6
	[] D019 [] D020	Carbon tetrachloride Chlordane		[]	WW []	Non-WW Non-WW	1 2 1 2	3	4 6
	[] D020	Chlorobenzene		: :	MM []	Non-ww	1 2	3	4 6 4 6
	[] D022	Chloroform		ii	• •	Non-WW	1 2	3	4 6
	[] D023	o-Cresol		Ĺ		Non-WW	1 2	3	4 6
	[] D024	m-Cresol		[]	WW []	Non-WW	1 2	3	4 6
	[] D025	p-Cresol		[]	MM []	Non-WW	1 2	3	4 6
	[] D026	Cresol		[]		Non-WW	1 2	3	4 6
	[] D027	1,4-Dichlorobenzene 1,2-Dichloroethane				Non-WW	1 2	3	4 6
	[] D028 [] D029	1,1-Dichloroethylene		[]	WW []	Non-WW Non-WW	1 2		4 6
	[] D029	2,4-Dinitrotoluene		[]	WW []	Non-WW	1 2		4 6 4 6
	[] D031	Heptachlor (and its e	poxide)	ij		Non-WW	1 2	-	4 6
	[] D032	Hexachlorobenzene	,	ij	ww į j	Non-WW	1 2		4 6
	[] D033	Hexachlorobutadiene		[]	ww []	Non-WW	1 2	3	4 6
	[] D034	Hexachloroethane	*	[]	MM []	Non-WW	1 2	3	4 6
	[] D035	Methyl ethyl ketone		[]	WW []	Non-WW	1 2		4 6
	[] D036 [] D037	Nitrobenzene Pentachlorophenol		[]	WW []	Non-WW	1 2		4 6
	[] D037	Pyridine		()		Non-WW Non-WW	1 2 1 2	- 7	4 6 4 6
	[] D039	Tetrachloroethylene		ii	WW []	Non-WW	1 2	-	4 6
	[] D040	Trichloroethylene		[]		Non-WW	1 2		4 6
	[] D041	2,4,5-Trichlorophenol		[]	WW []	Non-WW	1 2	3	4 6
	[] D042	2,4,6-Trichlorophenol		[]	WW []	Non-WW	1 2	3	4 6
	[] D043	Vinyl Chloride		[]	ww []	Non-WW	1 2	3	4 6
SECTION II.	SPENT SOLVE	NT WASTES FOOL THROUGH	<u>F</u> 005						
COLUMN 1:		COLUMN 2:			COLUMN	3:	COL	UMN	4 :
LINE ITEM		WASTE CODE / CONST	ITUENTS		WASTEWA'	_	HANDL		
SEE MANIFEST					NON-WASTE	WATER			
							_	_	_
	[] F001	[] F002 [] F003	[] F004 []	F005 []	ww []	Non-WW	3	4 5	6
r 1	1. ALL F001	-F005	[] 12. Cyclohex	anone		[] 25	. Pyrıdi:	ne	
	2. Acetone		[] 13. o-Dichlo						ethylene
[]	3. Benzene		[] 14. 2-Ethoxy	ethanol (F0	005		. Toluene	-	
[]	4. n-Butyl		only)			_ [] 28	1,1,1-	rric	nloro-
[]	5. Carbon d.	etrachloride	[] 15. Ethyl ac			() 00	ethane		. •
[]	Carbon toChlorober		[] 16. Ethyl ber[] 17. Ethyl eth			_ [] 29	. 1,1,2-1 ethane	rrici	itoro-
H	8. o-Cresol		[] 18. Isobutyl			[] 30	. Trichlo	roet	hwlene
— ii	••	(difficult to	[] 19. Methanol	CICO.101			. 1.1.2-7		
	distingui		[] 20. Methylene	e chloride					uoroethane
	p-cresol)		[] 21. Methyl e	-		_ [] 32			onofluoro-
[]		(difficult to	[] 22. Methyl is		one		methane		
	<pre>distingui m-cresol)</pre>		[] 23. Nitrobens		· =	_ [] 33	-		xed isomer
[]	·	mixed isomers	[] 24. 2-Nitrop: only)	copane (r00	13		p-xylene		m-, and
		-, m- and	Out y /				5 - VATEIR	- 1	
	p-cresol)	-							

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. BAND DESCRIPTION, RESTRICTION NOTIFICATION FORM LDR-1

Manifest No. 118493267

SECTION III.	CALIFORNIA LIST WASTES							
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN 3: ASTEWATER/ -WASTEWATER	COLU HANDL			E
	Hazardous waste containing one or more of the following California List constituents:	[]	WW	[] Non-WW	1 2 3	4	5	6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg [] Liquids with thallium greater than or equal to 130 [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>							
SECTION IV	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-	-, υ-	, AN	D P-CODES)				
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN 3: ASTEWATER/ -WASTEWATER	COLU HANDLI			E
	· · · · ·	[]	ww	[] Non-WW	3 4	9 5	6	
		[]	ww	[] Non-WW	3 4	. 5	6	
		[]	ww	[] Non-WW	3 4	. 5	6	
		[]	ww	[] Non-WW	3 4	. 5	6	
		[]	WW	[] Non-WW	3 4	. 5	6	
[] CHECK HE	RE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE RE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	r. 1	DENT	CIFY F039 CONSTI				LETINO
SECTION V. CO	ONTACT NAME AND DATE							
Print Name:	FRED G. KRIKAU	Dat	te: _	08-18-	-99			

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

	P.O. BOX 19276			NS 62794-9276	• •	ı				IT OF HAZARDOUS WASTE
EASE TYPE (Form design	ned for use on elite (12-pit		tate Form LF EPA	C 62 8/81 Form 8700-22	IL532-0610 (Rev. 6-89)		Form App	roved OME	3 No. 205	man 3//2
UNIFORM HAZAF		Generator's U			Manifest		Page 1			he shaded areas is no
WASTE MANIF		N D Ø 4	•		Document No.	ĺ	of 1	required	l by Fede	rel law, but is required b
		1110	on If Different		7007	A. III				t Number
3. Central Plaza Drive	.g / tab. 000 0		_			11	: Q./	102	266	FEE PAID,
Suite 106	EE0.			trial Hi	ghway	B G	enerato	<u> </u>	<u> </u>) IF APPLICABLI
Westmont, IL 60: 4. *24 HOUR EMERGENCY AN)) <i>)</i>	Gai	ry, IN 4 800-645	-8265		Ĭ	Numbe	191	1810	101/1919191
5. Transporter 1 Company Nam	ND SPILL ASSISTAN	6.	LIS	EPA ID Numl	nor .		ransport	ers , /	1.10	10-21120ch
Clean Harpons	_	*·.		93 2225			Numbe	er <i>(K)</i> ers Phor		1807450H
7. Transporter 2 Company Nam		3 626.		EPA ID Numl			ransport		18 (7/	5) 8 4 /-1 9 0 U
7. Hansporter 2 Company Nam	10	°.	03	CFA ID Num	Jei			ers F	,	والمراجع أأجا المعتبرين
9. Designated Facility Name an	d Site Address	10.	US	EPA ID Numb	рег	F. T	ransport	er's Phor	тө (^{;;;} ,;	Merch A.A.
Clean Harbors Se	rvices Inc					G. F	acility's I	Lюз	6 _ا 1ر	0000151
11800 South Stor Chicago, IL 6061	ny Island Avo 17		I L D Ø	0060	8 4 7 1	H. Fa	acility's I	Phone (-	773 ⁾ (46-6202
11. US DOT Description (Include	ling Proper Shipping	Name, Hazard	Class, and ID	Number)	12. Conta	ainers		13.	14.	NEW 20 - 12 17 35 3
					No.	Туре		otal antity	Unit Wt/Vol	Waste No.
a.										EPA HW Number
HAZARDOUS WASTE	LIQUID, N.O.	.s. , 9,	NA3082	. 17.		ر م			10	D'0''0'
	\$3.10	4.			0.0.1	7.7	بالوج	263	G	· · · · · · · · · · · · · · · · · · ·
b.			1							EPA HW Number
			· -				} 1	1 1		1. 14 · 10 · 10 · 10 · 10 · 10 · 10 · 10 ·
C.										EPA HW Number
•			•							1300 11 5 Sec. 15
			•				1.4	1 1		THE PROPERTY OF
d.			*							EPA HW Number ₃
									l	4 3 4 6 4 4
							1 1	1 1		LEAD HOWER
J. Additional Description for Mat	erials Listed Above	egyper (n. 1). Manasione.	ental of the	tilsen i Challe den den in	ielin e p		ndling C		Waste	s Listed Above
Station of the state of		THE STORY	#201455-A	A House of	ing single	energy.	والتحاج ببلت	والمستديق	die	Land White I have
					West of the w	506	24-5	CIHI	10.10	3
	Takan Milayi				A STATE OF THE STA	iggi ak di√a	Z) Salansa		r Maria	Al Penergan de la lace
	MATERIAL PROPERTY OF THE PARTY		Market Pile.	46.66.60.000	中,是是是其代的	58-00	3300 0			eline at he at he had be
15. Special Handling Instruction:	s and Additional Intol	mation							WO#	NB190474
/		,	-	5.1						
ERG# 17/	A 30 15	٠.	; *							
 GENERATOR'S CERTIFICATI proper shipping name and are according to applicable internal 	classified, packed, ma	irked, and labels	ed, and are in a							
If I am a large quantity genera	tor, I certify that I hav	e a program in	place to reduc	e the volume a	nd toxicity of wa	aste ge	nerated	to the de	gree i h	ave determined to
be economically practicable ar and future threat to human he select the best waste manager	nd that I have selected alth and the environme	the practicable ent; OR, if I am a	method of trea a small quantity	itment, storage, y generator, I ha	or disposal cui	tently a	available	to me wh	nich min	imizes the present
	III III II II II II II II II II II									Date

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Month Day Year

Month Day Year

Signature_

800 / 424-8802 or 202 / 426-2675

Date

This Agency is authorized to require, pursuant to illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

IND. HOWY GROUP

1145S

17. Transporter 1 Acknowledgement of Receipt of Materials

18. Transporter 2 Acknowledgement of Receipt of Materials

TRANSPORTER

FACILI

Manifest No. 118493268

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., lla) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

CHARACTERISTIC WASTES DOOL THROUGH DOAR

SECTION I

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268:42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION 1.	CHARAC	IERIS	TIC WASTES DOOT THROUGH DU43									
COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			LUMN TEWA ASTE	TER/	COLU HANDLI				
	()	D001	Ignitables, except High TOC subcategory	[]	ww	[}	Non-WW	1	2	3	4	6
	[]	D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[]	Non-W	W on	ly	1A		3	6	
	[]	D002	Corrosives	[]	WW	[]	Non-WW	1	2	3	4	6
	[]	D003										
		[]	Reactive Sulfide, per 261.23(a)(5)	[]	WW	()	Non-WW	1	3	4	5	6
		[]	Reactive Cyanide, per 261.23(a)(5)	[]	WW	[]	Non-WW	1	3	4	5	6
		[]	Explosive, per 261.23(a)(6), (7) & (8)	[]	WW	[]	Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-W	W on	ly	1	2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	[]	WW	[]	Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	[]	WW	1.1	Non-WW	1	3	4	5	6
	[]	D004	Arsenic	[]	WW	[]	Non-WW	1	2	3	4	6
	i i	D005	Barium	[]	ww	Ü	Non-WW	1	2	3	4	6
	Ü	D006	•									
		[]	Cadmium	()	WW	1.1	Non-WW	1	2	3	4	6
		ii	Cadmium Containing Batteries	Ìί	Non-W			2	3	6		
11 A	₩.	D007	Chromium	íí	WW		Non-WW	7		3	4	6
	\sim	D008	one one on	, ,		Y :		し	~	•	1	•
	£ 1	[]	Lead	()	WW	/r 1	Non-WW		2	3	A	6
		1 1				1	-	<u>,</u>	2	2	4	•
		į J	Lead Acid Batteries	l J	Non-W	m On.	тŊ	2	3	6		

p-cresol)

Janufest No. 11 - 8493268

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

			THATES BOOT 43 (CONTINUED)					
COLUMN 1:			COLUMN 2:			COLUMN 3:	COLUMN	4:
LINE ITEM			WASTE CODE / NAME			WASTEWATER/	HANDLING	CODE
SEE MANIFEST						NON-WASTEWATER		
		D009	Low Morenty loss than 260 mg/kg Moren	· ·	, 1	WW [] Non-WW	1 2 3	4
		[]	Low Mercury, less than 260 mg/kg Mercu High Mercury Organic Subcategory	•	-	Non-WW only	2 3 4	4
		[]	High Mercury Inorganic Subcategory		()		2 3 4	
		D010	Selenium		ij	WW [] Non-WW		4 6
		D010	Silver		ί,	1 1		4 6
		D011	Endrin		()	WW [] Non-WW		5 6
		D012	Lindane		ij	WW [] Non-WW		5 6
			_		[]	WW [] Non-WW		5 6
		D014 D015	Methoxychlor Toxaphene		[]	WW [] Non-WW		5 6
		D015	•		[]	WW [] Non-WW	2 3 4	5 6
		D018	2,4-D		[]	WW [] Non-WW	2 3 4	5 6
	• -	0018	2,4,5-TP (Silvex) Benzene		[]	WW [] Non-WW	1 2 3	4 6
		0019	Carbon tetrachloride		()	WW [] Non-WW	1 2 3	4 6
		0020	Chlordane			WW [] Non-WW	1 2 3	4 6
			Chlorobenzene		[]	WW [] Non-WW	1 2 3	4 6
		0021	Chloroform		[]	WW [] Non-WW	1 2 3	4 6
		0023	o-Cresol		ίί	WW [] Non-WW		4 6
		0024	m-Cresol		ij	WW [] Non-WW	1 2 3	4 6
			p-Cresol		[]	WW [] Non-WW	1 2 3	4 6
	-	0026	Cresol		ii	WW [] Non-WW	1 2 3	4 6
		0027	1,4-Dichlorobenzene		ij	WW [] Non-WW	1 2 3	4 6
		0028	1,2-Dichloroethane		ij	WW [] Non-WW	1 2 3	4 6
			1,1-Dichloroethylene		ij	WW [] Non-WW	1 2 3	4 6
			2,4-Dinitrotoluene			WW [] Non-WW	1 2 3	4 6
~	-		Heptachlor (and its epoxide)		ij	WW [] Non-WW	1 2 3	4 6
		0032	Hexachlorobenzene		ij	WW [] Non-WW	1 2 3	4 6
		0033	Hexachlorobutadiene		ij	WW [] Non-WW	1 2 3	4 6
		0034	Hexachloroethane		ii	WW [] Non-WW	1 2 3	4 6
		0035	Methyl ethyl ketone		ij	WW [] Non-WW	1 2 3	4 6
		0036	Nitrobenzene		ij	WW [] Non-WW	1 2 3	4 6
		0037	Pentachlorophenol		ij		1 2 3	4 6
			Pyridine		ij	WW [] Non-WW	1 2 3	4 6
			Tetrachloroethylene		()	WW [] Non-WW	1 2 3	4 6
					[]	WW [] Non-WW	1 2 3	4 6
			2,4,5-Trichlorophenol		[]	WW [] Non-WW	1 2 3	4 6
			2,4,6-Trichlorophenol		[]	WW [] Non-WW	1 2 3	4 6
			Vinyl Chloride		[]	WW [] Non-WW	1 2 3	4 6
			•					
SECTION II.	SPENT S	OLVE	VT WASTES F001 THROUGH F005					
COLUMN 1:			COLUMN 2:			COLUMN 3:	COLUMN	4:
LINE ITEM			WASTE CODE / CONSTITUENTS			wastewater/	HANDLING	CODE
SEE MANIFEST						NON-WASTEWATER		
	[] FO	001	[] F002 [] F003 [] F004 []	F005	[]	WW [] Non-WW	3 4 9	5 6
	1. ALL					[]	25. Pyridine	
	2. Acet		[] 13. o-Dichlo	-		—— []	26. Tetrachlor	coernyrene
	3. Benz		[] 14. 2-Ethoxy	yethanol	(F		27. Toluene	
			only)			[]	28. 1,1,1-Tric	cnioro-
			sulfide [] 15. Ethyl ac			, ,	ethane	
			trachloride [] 16. Ethyl be				29. 1,1,2-Tric	uroro-
		roben				r 1	ethane	+hirlan-
	8. o-Cr		[] 18. Isobuty		•	[]	30. Trichloroe	
[]			(difficult to [] 19. Methanol sh from [] 20. Methyler		4-	[]	31. 1,1,2-Tric	
		-		-		. []	·	luoroethane
r 1	p-cre						32. Trichloron methane	WHOLIUUIU-
[]	-				vec	one []		ived income
					200		33. Xylene - m (sum of o-,	
()	m-cre		mixed isomers [] 24. 2-Nitrop only)	brobaue (rut	,,,	p-xylene)	, m-, and
			mixed isomers only) , m- and				h varene	
	p-cre		,					

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1

Manifest No. 11 8493268

				-		_								~~
SECTION III.	CALIFORNIA LIST WASTES													
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY				AST	EW	N 3: ATER EWAT	/			LUM		4 : CODE	
	Hazardous waste containing one or more of the following California List constituents:	ί	1	WW		[]	No	n-WW	. 1 2		3	4	5 6	
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg [] Liquids with thallium greater than or equal to 130 [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg													
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-		บ-	, AN	DΡ	<u>- cc</u>	DES)						
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			W	AST:	EWA	N 3: ATER EWAT	/			LUM LIN		CODE	
		(J	WW		[]	No	n - WW		3	4	5	6	
		ι	3	ww		()	ИО	n-WW		3	4	5	6	
	· · · · · · · · · · · · · · · · · · ·	ι	3	ww		[]	No	n - WW		3	4	5	6	
		ι	J	ww		[]	No	n-WW	;	3	4	5	6	
	, , , , , , , , , , , , , , , , , , ,	ί	J	ww		[]	No	n - WW	;	3	4	5	6	
[] CHECK HE	RE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE RE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	٠.	1	DEN'	IFY	F	039	CONS	T I TUENT					ING
SECTION V. CO	NTACT NAME AND DATE													

KEY TERMS/DEFINITIONS

Print Name: 140MAS J. RYSILWILT

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

Date: 28-11-35

State Form LPC 62 8/81 IL532-0610

드	PLEASE ITPE (Form designed for use on eli	ite (12-pitch) typewnter.)	EPA Form 8/00-22 (H	ev. 6-89)	Fori	n Approved. OME	3 No 205	0-0039
4	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US	LEAD NO. Do	Manifest current No	2 Pag of		i by Fede	e shaded areas is not ral law, but is required by
П	3. G6500or Industral Maling Madel Plaza Drive	Group Location	n If Different				cument	Number FEE PAID IF APPLICABLES
Ц	Suite 106	6499	9 I <u>ndustrial</u> High	way		8493 erator's IL	2/1	IF APPLICABLE
П	Westmont, IL 60559 4. 24 HOUR EMERGENCY AND SPILL AS	Gar SISTANCE NUMBERS	y, IN 46406 800-645-8265		ID N	umber 1	11	
П	5. Fransporter 1 Company Name	ъ.	US EPA ID Number		C. Tran ID N	sporter's py	1018	07430H
	CLEANHARDON ENVIOLVI		1 <i>AD 0</i> 393222 <i>57</i> US EPA ID Number			sponer's Phor	ne (78	1) 849 18 <i>0</i> 0
	7. Transporter 2 Company Name	8. [US EFA ID Number		ID N	sporter's umber		
	9. Designated Facility Name and Site Addres	ss 10.	US EPA ID Number			sporter's Phor	ie (A 1/2 CALL
	Clean Harbors Services	Inc			G. Facil	umber 10 13	1116	10°10'10'10'15'11
	11800 South Stony Islan Chicago, II. 60617		r t. n a a a 6 a 8	471	H. Facil	ity's Phone (773)6	46-6202
	11. US DOT Description (Including Proper S			12. Conta		13. Total	14. Unit	
G	G 8. MACINE CORDOCTURE LITOUTE			No.	Туре	Quantity	Wt/Vol	Waste No.
	(Sulfuric Acid). 8. UN3	ACIDIC, INORG 264. II	ANIC, N.O.S.]				K 0 6 2
E	n j	·	To the second se	001	<u> </u>	<u> 3000</u>	G	ME STATE OF
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	A			1				二萬智樂學常
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R	R					,	.	C. 1. 14. 14. 14. 14. 14. 14. 14. 14. 14.
ı	d.			<u> </u>	-		+	EPA HW Number
								NEW MEETING
			a managanan ili anggar en bilangan anggar en ilike en	<u> </u>	<u>. </u>			3.加州首徽
	/J. Additional Description for Materials Listed 11a CH144189B D002, D00	いっこく だん・ドイ しきせいせきしょうご カフェビルス・バイイ			K./Handl	ing Codes for n #14	Wastes	Listed Above
1				200.00.00				1981年198日
						ag tantint. Ng thiết is s		
١	15. Special Handling Instructions and Addition			\$24.77 3.35 <u>-</u>				177.00054
l	1	•	e e				WO#	NB189251
			•					
1	16. GENERATOR'S CERTIFICATION: I hereby							
	proper shipping name and are classified, pad according to applicable international and nat	ional government regulation	ons.		•	, , ,		
	If I am a large quantity generator, I certify the be economically practicable and that I have	selected the practicable in	nethod of treatment, storage, or	disposal cui	rently ava	ilable to me wh	iich mini	mizes the present
	and future threat to human health and the er select the best waste management method to			made a god	ru iaim en	on to minimize	my was	Date
l	Printed/Typed Name	GSOO IND. HE	Signature	0 4		,	<u>-</u> -	Month Day Year
<u>*</u>	THOMAS TEXCIONICZ	GROUP	1/ Chan	york	Ku	uy_	1	08 30 99
RAN	17. Transporter 1 Acknowledgement of Recei	pt of materials	Signature	0			1	Date Month Day Year
S			Petern	Lusa				018121088
ÖR	18. Transporter 2 Acknowledgement of Recei	pt of Materials						Date
T E R	r Printed/Typed Name		Signature				1	Month Day Year
	19. Discrepancy Indication Space						1	
F			٠.					
ĉ	298719499							
L	20. Facility Owner or Operator: Certification of	f receipt of hazardous m	aterials covered by this mapif	est except a	s noted i	n item 19		Date
Ÿ	Printed/Typed Name	1	Signature					Month Day Year
لِ	This Agency is authorized to require, pursuant to Illinois	Revised States 1000 Char	1073111 1/2 "Serting 1004 and 400	that this	domestico E	Muni	be Acces	OSTAGES
ŧ	This Agency is authorized to require, pursuant to ininois this information may result in a civil penalty against the per day of violation and imprisonment up to 5 years This form ha	owner or operator not to	exceed \$25,000 per day of yilolation	n Falsification	of this m	formation may re	sull in a	fine up to \$50,000

Manifest No. 115 (93) 70

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- *** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARACTERIS'	FIC WASTES DOO1 THROUGH DO43			
COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D001 [] D001	3	{ }	WW [] Non-WW	1 2 3 4 6 1A 3 6
IIA-	M D002	(Greater than or equal to 10% TOC)		WW Non-WW	71)2 3 4 6
	[] D003	Reactive Sulfide, per 261.23(a)(5)	[]		1 3 4 5 6
	[]	Reactive Cyanide, per 261.23(a)(5) Explosive, per 261.23(a)(6), (7) & (8)	[]	WW	1 3 4 5 6
	()	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW only	1 2 3 4 6
	[]	Other Reactive, per 261.23(a)(1) Unexploded Ordnance, Emergency Response	[]	WW [] Non-WW Ww [] Non-WW	1 2 3 4 6
	{] D004	Arsenic	(i	WW [] Non-WW	1 2 3 4 6
	[] D005 [] D006	Barium	[]	WW [] Non-WW	1 2 3 4 6
	[]	Cadmium			1 2 3 4 6
44 A	D007	Cadmium Containing Batteries · Chromium	[]	Non-WW only WW Non-WW	$(\frac{2}{1}, \frac{3}{2}, \frac{6}{3}, \frac{6}{4}, \frac{6}{6})$
	1 1 1 1	Lead Lead Acid Batteries	[]	WW Mon-WW only	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Janufest No. 1 8493270

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	e000 [] [] []	Low Mercury, less than 260 mg/kg Mercury High Mercury Organic Subcategory High Mercury Inorganic Subcategory	[] WW [] Non-WW [] Non-WW only [] Non-WW only	1 2 3 4 2 3 4 2 3 4
	[] D010 [] D011	Silver	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D012 [] D013	Endrin Lindane	[] WW [] Non-WW [] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6
	[] D014 [] D015	Methoxychlor Toxaphene	[] WW [] Non-WW [] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6
	[] D016 [] D017		[] WW [] Non-WW [] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6
	[] D018 [] D019	Benzene Carbon tetrachloride	[] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D020 [] D021		[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D022 [] D023	o-Cresol	[] WW [] Non-WW [] WW []	1 2 3 4 6 1 2 3 4 6
	[] D024 [] D025	m-Cresol p-Cresol	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D026 [] D027	Cresol 1,4-Dichlorobenzene	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D028 [] D029	1,2-Dichloroethane 1,1-Dichloroethylene	[] WW [] Non-WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
	[] D030 [] D031	2,4-Dinitrotoluene Heptachlor (and its epoxide)	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D032 [] D033	Hexachlorobenzene Hexachlorobutadiene	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D034 [] D035	Hexachloroethane Methyl ethyl ketone	{	1 2 3 4 6 1 2 3 4 6
	[] D036 [] D037	Nitrobenzene Pentachlorophenol		1 2 3 4 6 1 2 3 4 6
	[] D038 [] D039	Pyridine Tetrachloroethylene	WW-noN [] WW [] WW-noN []	1 2 3 4 6 1 2 3 4 6
	[] D040 [] D041	•	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D042 [] D043	2,4,6-Trichlorophenol Vinyl Chloride	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
SECTION II.	SPENT SOLVE	NT_WASTES F001 THROUGH F005		
COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] F001	[] F002 [] F003 [] F004 [] F00	05 [] WW [] Non-WW	3 4 5 6
[] 2 [] 3 [] 4 [] 5 [] 5 [] 7 [] 8 [] 9	C. Chlorobe C. o-Cresol C. m-Cresol distingui p-cresol C. p-Cresol distingui m-cresol)	[] 13. o-Dichlorobe [] 14. 2-Ethoxyetha only 15. Ethyl acetat etrachloride [] 15. Ethyl acetat etrachloride [] 16. Ethyl benzen 17. Ethyl ether 18. Isobutyl alc (difficult to [] 19. Methanol sh from [] 20. Methylene ch [] 21. Methyl ethyl (difficult to [] 22. Methyl isobuth sh from [] 23. Nitrobenzene [] 24. 2-Nitropropa only)	nzene [] 26. nol (F005 [] 27. e e [] 29. ohol [] 30. [] 31. loride ketone [] 32. tyl ketone [] 33. ne (F005	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isome (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No.

SECTION III. CALIFORNIA LIST WASTES COLUMN 2: COLUMN 3: COLUMN 4: LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER Hazardous waste containing one or more of the following [] WW [] Non-WW California List constituents:

[) ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/l
[] Liquids with thallium greater than or equal to 130 mg/l

[] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN 3: ASTEWATER/ -WASTEWATER	CO HAND		IN 4 IG C	
- UA-	K062	[]	ww	[] Non-WW	3	4	<u>(5)</u>) 6
		[]	ww	[] Non-WW	3	4	5	6
		[]	WW	[] Non-ww	3	4	5	6
		[]	ww	[] Non-WW	3	4	5	6
	<u> </u>	()	ww	[] Non-WW	3	4	5	6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

SECTION V. CONTACT NAME AND DATE

Print Name:	TUAMAS	RASILWILZ	Data	8-20-99	
Print Name:	/ AUITUS	Caronic	Date:	0 0 11	

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

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HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

^[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No 2050-0039 Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law 1. Generator's US EPA ID No. UNIFORM HAZARDOUS *8*88879 WASTE MANIFEST ии A A Q Q A. Illinois Manifest Document Number 3. GO SOO OF INCOME OF INCOME OF THE STATE O Location If Different FEE PAID IF APPLICABLE **414** Plaza Drive B. Generator's B. Mumber Suite 106 6499 Industrial Highway Westmont, IL 60559 Gary, IN 46406
*24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 5. Transporter 1 Company Name US EPA ID Number ID Number [MALO39322250 LeanHarbors EnvServi D. Transporter's Phone (US EPA ID Number E. Transporter's 7. Transporter 2 Company Name 8. ID Number 1/3 F: Transporter's Phone (🚟 9. Designated Facility Name and Site Address 10. US EPA ID Number G. Facility's IL. ID Number 19 13 11 Clean Harbors Services Inc 11800 South Stony Island Ave Chicago, IL 60617 H. Facility's Phone (n a 46-6202 Chicago, II. 60617 II. D 0 0 0 6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 14. 13. Tota! Unit Waste No. No Type Quantity Wt/Vo G EPA HW Number a. E _{- (क} D **0** 0 HAZARDOUS WASTE LIQUID, N.O.S. , 9, NA3082 N CONTRACTOR OF THE PARTY OF THE Е EPA HW Number R EPA HW Number 0 C. A **EPA HW Number** d. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 Brickley to The For 15. Special Handling Instructions and Additional Information wo# NB190474 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name AGEUTFOR 6500 Signature Month Day Year MONAS J. RYSBUILCY IND HEWYGROU 0820 17. Transporter 1 Acknowledgement of Receipt of Materials Date Month Day Printed/Typed Name Signature eter M C SISAN 08 20 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space ACI 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed/Typed Name Month Day Year Signature 0182019 This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, this Information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center. that this information be submitted to the Agency Failure to provide Falsification of this information may result in a fine up to \$50,000

Manifest No.

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ NON-WASTEWATER			UMN		
	[]	D001 D001 D002]		WW [] Non-WW Non-WW only WW [] Non-WW	1 1A 1	2	3 3	4 6 4	6
	[]	D003	Reactive Sulfide, per 261.23(a)(5) Reactive Cyanide, per 261.23(a)(5) Explosive, per 261.23(a)(6), (7) & (8) Water Reactive, per 261.23(a)(2), (3) & (4) Other Reactive, per 261.23(a)(1)] [[[]]]]	WW [] Non-WW WW [] Non-WW Non-WW only WW [] Non-WW	1 1 1 1	3 3 2 2 2	4 4 3 3 3	5 5 4 4	6 6 6 6
	[]	[] D004 D005 D006	Unexploded Ordnance, Emergency Response Arsenic Barium Cadmium	[] []]	WW [] Non-WW WW [] Non-WW WW [] Non-WW	1 1 1	3 2 2	3 3	5 4 4	6 6
HA	×1	[] D007 D008	Cadmium Containing Batteries Chromium Lead	[j J	Non-WW only WW [] Non-WW	² ² 1	3 /2 2	3	4	6
		[]	Lead Acid Batteries	ĺ]	Non-WW only	2	3	6		

p-cresol)

Manifest No. 1 8432 1/

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory	[] WW [] Non-WW [] Non-WW only [] Non-WW only	1 2 3 4 2 3 4 2 3 4
	[] D010 Selenium [] D011 Sılver [] D012 Endrin	[] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 2 3 4 5 6
	[] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D	[] WW [] NON-WW [] WW [] NON-WW [] WW [] NON-WW [] WW [] NON-WW	2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6
	[] D017 2,4,5-TP (S1lvex) [] D018 Benzene [] D019 Carbon tetrachloride	[] WW [] Non-WW [] WW [] Non-WW	2 3 4 5 6 1 2 3 4 6 1 2 3 4 6
	[] D020 Chlordane [] D021 Chlorobenzene [] D022 Chloroform [] D023 o-Cresol	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	<pre>[] D031 Heptachlor (and its epoxide) [] D032 Hexachlorobenzene [] D033 Hexachlorobutadiene [] D034 Hexachloroethane</pre>	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	 D035 Methyl ethyl ketone D036 Nitrobenzene D037 Pentachlorophenol D038 Pyridine 	[] WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D039 Tetrachloroethylene [] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES F001 THROUGH F005 COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] F001 [] F002 [] F003 [] F004 [] F005	[] WW [] Non-WW	3 4 5 6
	ALL F001-F005 12. Cyclohexanone	zene [] 26. ol (F005	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. 11849321/

SECTION III. CAL	IFORNIA LIST WASTES					,
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ N-WASTEWATER	COLUMI HANDLING	
	zardous waste containing one or more of the follow. lifornia List constituents:	ing [] ww	[] Non-WW	1 2 3	i 5 6
[] [] []	ALL CALIFORNIA LIST CONSTITUENTS Liquids with nickel greater than or equal to 134 Liquids with thallium greater than or equal to 1 Liquids with PCB's > or = 50 ppm Waste containing HOC's > or = 1,000 mg/kg		' 1			
SECTION IV. OTHER	LISTED WASTES (F006-12, F019-F028, F037-38, F039,	Κ-, τ	-, AI	ID P-CODES)		
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: MASTEWATER/ I-WASTEWATER	COLUMN HANDLING	
		ŧ) ww	[] Non-ww	3 4	5 6
		ſ	J WW	[] Non-WW	3 4	5 6
		ſ) ww	[] Non-WW	3 4	5 6
		ι] ww	[] Non-WW	3 4	5 6
		1) ww	[] Non-WW	3 4	5 6
[] CHECK HERE I	ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLIF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESEND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLET	ENT.	IDEN	TIFY F039 CONST		
SECTION V. CONTAC						
Print Name:	THOMAS J. RYSIEWILZ	_ Da	te:	8-20	0-49	

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

State Form LPC 62 8/81 IL532-0610

SIN

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

<u> </u>	LEASE TYPE (Form designed for use on elite (12	!-pitch) typewnter.)	EPA F	orm 8700-22 (Re	ev. 6-89)		Form Approved OI	//B No. 20:	50-0039
4	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's U	JS EPA ID No.	Doc	Manifest cument No OZO	2	Page 1 Inform	ed by Fede	the shaded areas is no eral law, but is required b
П	3. G65000 or Enductoring Ling Lagragay G1		tion If Different	3 3 21		A. 11			nt Number
П	414 Plaza Drive	_	00 T- 3			353 H	8493	350	FEE PAID.
П	Suite 106 Westmont, IL 60559	Ga	99 Indust	406 ⁻	way	B. G	enerator's 16	10	757 -435 2801KE 16
П	4. *24 HOUR EMERGENCY AND SPILL ASSIST	ANCE NUMBER	s-800-645-	8265			Number 1		7011919191
П	5. Transporter 1 Company Name	6.	US E	PA ID Number		(Fig.)	Number U	PWC	1807436H
П	Clean Harbons Enu Schuic	es Inc.	MAD 039	3222 <i>50</i>		D. T	ransporter's Ph	one () Take
	7. Transporter 2 Company Name	8. 	US E	PA ID Number			ransporter's Number		
	9. Designated Facility Name and Site Address	10.	US E	PA ID Number		├	ransporter's Ph	one ()
П	Clean Harbors Services Inc	;		ç • • •		G. F: 3_:/- [acility's IL Number Ø [3 1 16	00001511
IJ	11800 South Stony Island A	\ve			471	H. F	acility's Phone	(222)	To the hills and the second
Ħ	Chicago, IL 60617 11. US DOT Description (Including Proper Shippi	na Name. Hazan		00608 Number)	12. Conta	iners	13.	14.	546-6202 v
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	J. Additional Description for Materials Listed Abov				int on	K. Ha	indling Codes for	or Waste	s'Listed Above
	-11a CH144190					in.	Item #14	u volini.	
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ł		expensive constraint		一种的性质性等	克勒4×9 9				
	15. Special Handling Instructions and Additional In	nformation						wo#	NB192188
			-						
	16. GENERATOR'S CERTIFICATION: I hereby decla	re that the conten	te of this consigna	nent are fully and	accurately	descel	ned above by		······································
l	proper shipping name and are classified, packed, according to applicable international and national	marked, and labe	led, and are in all	respects in prope	er condition	for trai	nsport by highwa	у	
	If I am a large quantity generator, I certify that I	• •		the volume and to	oxicity of wa	aste ge	enerated to the d	egree I h	nave determined to
1	be economically practicable and that I have select and future threat to human health and the environ	ted the practicable ment: OR. If I am	e method of treatners a small quantity of	nent, storage, or o generator. I have	disposal cur made a co	rently a	available to me v	vhich min e mv wa	umizes the present ste generation and
}	select the best waste management method that is							•	Date
L	Printed/Typed Name A6C	SINO HO	Signature	۵,					Month Day Year
<u> </u>	THOMAS RYSIGNICZ BOOK	CROUP		Mynn	u P	£L	wy		08 2644
T R	17. Transporter 1 Acknowledgement of Receipt of	Materials					U		Date
RANS	Printed/Typed Name		Signature	0	1 0	0	1		Month Day Year
P			150	but A	1. 1	hu	1		01812181719
P	18. Transporter 2 Acknowledgement of Receipt of	Materials	l Ciana atoma			=			Date Month Day Year
E	Printed/Typed Name		Signature					,	Month Day Year
R	19. Discrepancy Indication Space								
F	is assispancy marganet opage								
AC			_					8	11 N 17266 II .
ĭ	se J-add Door Haidm	ine to Wash	Corrosiveliquid	Besi Inn	CAZN.C	1.20	sodiumhydrex	- L	10.03
Ţ	20. Facility Owner or Operator: Certification of rece					as note		"	Date
Ÿ	Printed/Typed Name	1	Signature		/	/	1 /		Month Day Year
	UESSE_	HEEVA	0		me	/\/	wake		08/2699
ŧ	This Agency is authorized to require, pursuant to litinois Revisithis information may result in a civil penalty against the own per day of violation and imprisonment up to 5 years. This form has been	er or operator not (to exceed \$25,000 p	per day of violation					

Manifest No. <u>LL8493356</u>

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 w The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (i) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDS NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOOL THROUGH DO43

COLUMN 1. LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN WASTEWA NON-WASTE			4: CODE			
	[]	D001 D001 D002	Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC) Corrosives]]]	1	Non-WW or	Non-WW	1 1A 1	2	3 3	4 6 4	6
	()	D003 [] [] [] [] [] []	Reactive Sulfide, per 261.23(a)(5) Reactive Cyanide, per 261.23(a)(5) Explosive, per 261.23(a)(6), (7) & (8) Water Reactive, per 261.23(a)(2), (3) & (4) Other Reactive, per 261.23(a)(1) Unexploded Ordnance, Emergency Response]]	WW []	Non-WW Non-WW Non-WW Non-WW	1 1 1 1 1 1	3 3 2 2 2 2 3	4 4 3 3 3 4	5 5 4 4 4 5	6 6 6
	X	D004 D005 D006 [] []	Arsenic Barium Cadmium Cadmium Containing Batteries Chromium	[[[]	,	Non-WW	1 2 1	2 3) 2	3 6 3	4	6
	l J	D008 [] []	Lead Lead Acid Batteries	[[]]	MM []	Non-WW	1 2	2	3 6	4	6

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p-cresol)

Manifest No. <u>IL849:33.56</u>

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1 LINE 1TEM SEE MANIFEST	COLUMN 2. WASTE CODE / NAME		COLUMN 3. WASTEWATER/ N-WASTEWATER	COLUMN 4. HANDLING CODE
SEE MANIFEST	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chloroform [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D032 Hexachlorobenzene [] D033 Hexachlorobenzene [] D034 Hexachlorobenzene [] D035 Methyl ethyl ketone [] D036 Nitrobenzene	[] ww	[] Non-ww on-ww only [] Non-ww	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 1 2 3 4 6
SECTION II.	[] D037 Pentachlorophenol [] D038 Pyridine [] D039 Tetrachloroethylene [] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride SPENT SOLVENT WASTES F001 THROUGH F005	() WW () WW () WW () WW () WW	Non-WW N	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTITUENTS	NO	COLUMN 3: WASTEWATER/ DN-WASTEWATER	COLUMN 4: HANDLING CODE
	[] F001 [] F002 [] F003 [] F004 [] F005	[] WV	w [] Non-ww	3 4 5 6
	1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobenze 3. Benzene [] 14. 2-Ethoxyethano. only) 5. Carbon disulfide [] 15. Ethyl acetate 6. Carbon tetrachloride [] 16. Ethyl benzene 7. Chlorobenzene [] 17. Ethyl ether 8. o-Cresol [] 18. Isobutyl alcoho g-cresol (difficult to [] 19. Methanol distinguish from [] 20. Methylene chloropercesol) [] 21. Methyl ethyl ko distinguish from [] 22. Methyl isobutyl distinguish from [] 23. Nitrobenzene m-cresol) [] 24. 2-Nitropropane only) 11. Cresol - mixed isomers (sum of O m- and	l (F005 ol ride etone l keton	[] 2	5. Pyridine 6. Tetrachloroethyler 7. Toluene 8. 1,1,1-Trichloroethane 9. 1,1,2-Trichloroethane 0. Trichloroethylene 1. 1,1,2-Trichloro- 1,2,2-trifluoroeth 2. Trichloromonofluomethane 3. Xylene - mixed is (sum of o-, m-, an p-xylene)

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HEND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1	anitest No.		-0 c \		70
SECTION III.	CALIFORNIA LIST WASTES					
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	N	COLUMN WASTEWA ON-WASTE	TER/	COLUM HANDLIN	
	Hazardous waste containing one or more of the fol- California List constituents:	lowing [] W	[] WI	Non-WW	1 2 3	4 5 6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>					
SECTION IV. O	THER LISTED WASTES (F006-12, F019-F028, F037-18, F0	039, K-, U-,	AND P-CO	DES)		
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	N	COLUMN WASTEWA ION-WASTE	TER/	COLUM HANDLIN	
		[] W	rw ()	Non-WW	3 4	5 6
		() w	iw []	Non-ww	3 4	5 6
		() w	IW []	Non-ww	3 4	5 6
		. (] W	ıw ()	Non-ww	3 4	5 6
	, - 3	[] w	/W []	Non-WW	3 4	5 6
[] CHECK HER	E IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. CO E IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COM	PRESENT. ID	ENTIFY F	039 CONSTI		
	NTACT NAME AND DATE					
Print Name:	THOMAS RYSICUILZ. AGENT FOR 6500 END. HO PRP 6KOUP	Date	e:	8-2-6	3-94	
	HOLUT FOR 6500 EUD. HO PRP 6KOUP	ω_{λ}				

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. F example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to t local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewat treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

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HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contagreater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treat using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES us at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequireuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

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STATE UP ILLINUIS FOR SHIPMENT OF HAZARDOUS P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 32 AND SPECIAL WASTE LPC 62 8/81 IL532-0610 State Form PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No 2050-0039 Mantfest Information in the shaded areas is not required by Federal law, but is required by 1. Generator's US EPA ID No. 2. Page 1 **UNIFORM HAZARDOUS** Pocument No **WASTE MANIFEST** 0002 IND 0 4 0 8 8 8 9 9 2 1 Mort Names and Making Address y Plaza Drive Group A. Illinois Manifest Document Number Location If Different FEE PAID Suite 106 IF APPLICABLE 6499 Industrial Highway *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 B. Generator's IL ID Number 1 C.: Transporter's/10 US EPA ID Number Transporter) Company Name ID Number (D. Transporter's Phone (US EPA ID Number Transporter's Transporter 2 Company Name R 。 自己公然 **ID Number** F. Transporter's Phone () 9. Designated Facility Name and Site Address US EPA ID Number 10. me germands Bayer was ... G. Facility's IL Clean Harbors Services Inc ☆ ID Number Ø 3 11 16 Ø Ø Ø Ø 8551 11800 South Stony Island Ave H. Facility's Phone (773) 646-6202 ILD000608471 Chicago, IL 60617 江东 李明春 游客 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 14. 13. Waste No. Total Unit Type Quantity Wt/Vol 45.7 G EPA HW Number a. WASTE CORROSIVE LIQUID, ACIDIC, (Sulfuric Acid), 8, UN3264, II INORGANIC, N.O.S. K#0 6 Ε A THE SECOND N E EPA HW Number b. R Line Color T "EPA HW Number C. 0 Ħ San Carrie EPA HW Number d. J. Additional Description for Materials Listed Above 111a CH144189B D002 D007 D008 Chapter and the control of the same of the same of the same of the same of the same of the same of the same of 党的市最高的企业。由1961年11月1日中间 15. Special Handling Instructions and Additional Information wo# NB192209 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date AGOUT FOR 6500 Signature Printed/Typed Name Month Day Year IND HEWY GROVE 08 26 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year Signature 10 264

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name

19. Discrepancy Indication Space

B-9190019999

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Date

Date

Month Day

Year

Year

Month Day

[[NEUALO 08 2689 This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation Faisification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Signature

Manifest No. <u>IC849.3362</u>

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- *** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH DO43 COLUMN 1. COLUMN 2: COLUMN 3: COLUMN 4 · LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE NON-WASTEWATER SEE MANIFEST [] D001 Ignitables, except High TOC subcategory [] WW [] Non-WW 1 2 3 4 6 [] Non-WW only [] D001 High TOC Ignitable Liquids Subcategory 1 A 3 6 (Greater than or equal to 10% TOC) D002 Corrosives [] WW [X Non-ww D003 Non-ww Reactive Sulfide, per 261.23(a)(5) I I WW [] 6 [] WW Reactive Cyanide, per 261.23(a)(5) [] Non-WW 4 5 [] 3 6 [] WW Explosive, per 261.23(a)(6), (7) & (8) [] Non-WW [] 2 3 Water Reactive, per 261.23(a)(2), (3) & (4) [] Non-WW only 1 3 ſì [] Non-WW Other Reactive, per 261.23(a)(1) [] WW 2 3 [] [] Non-WW Unexploded Ordnance, Emergency Response [] WW [] [] Non-WW Arsenic f 1 ww [] D004 [] D005 Barıum [] WW [] Non-WW [] D006 Cadmium [] WW [] Non-WW 3 [] D007 Cadmium Containing Batteries () Non-WW only 6 Chromium [] WW ₩ Non-ww Lead LA_Non-WW 3 4 [] WW Lead Acid Batteries [] Non-WW only

17.4

SECTION I CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2. WASTE CODE / NAME	COLUMN 3 · WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
SEE MANIFEST	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chlorobenzene [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene [] D029 1,1-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D032 Hexachlorobenzene [] D033 Hexachlorobenzene [] D034 Hexachloroethane [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachloroethylene [] D039 Tetrachloroethylene [] D039 Tetrachloroethylene [] D041 2,4-S-Trichloroethylene [] D041 Trichloroethylene [] D041 Trichloroethylene	WW Non-WW Non-WW Non-WW Non-WW Non-WW Non-WW WW WW WNON-WW WW WW WW WNON-WW WW WW WW WNON-WW WW WW WNON-WW WW WW WW WW WNON-WW WW 2 3 4 6 1 2 3 4 6 6 1 2 2 3 4 6 6 1 2 2	
	[] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride	[] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES FOO1 THROUGH FOO5 COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] F001 [] F002 [] F003 [] F004 [] F005 1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobenze 3. Benzene [] 14. 2-Ethoxyethanol only) 5. Carbon disulfide [] 15. Ethyl acetate 6. Carbon tetrachloride [] 16. Ethyl benzene 7. Chlorobenzene [] 17. Ethyl ether 8. o-Cresol [] 18. Isobutyl alcoho distinguish from [] 20. Methylene chlor p-cresol) [] 21. Methyl ethyl ke distinguish from [] 22. Methyl isobutyl distinguish from [] 23. Nitrobenzene m-cresol) 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)	ene [] 26 1 (F005	3 4 5 6 Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethal Trichloromonofluoromethane Xylene - mixed isor (sum of o-, m-, and p-xylene)

Manifest No. <u>TL8493362</u>

				_		~					_		
SECTION III	CALIFORNIA LIST WASTES											•	
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			W	COLUI ASTEI -WAS:	VA:			CC H AN E	LUN			E
	Hazardous waste containing one or more of the following California List constituents:	ſ	1	WW	[)	Non-WW	1	2	3	4	5	6
	 ALL CALIFORNIA LIST CONSTITUENTS Liquids with nickel greater than or equal to 134 m Liquids with thallium greater than or equal to 130 Liquids with PCB's > or = 50 ppm Waste containing HOC's > or = 1,000 mg/kg 		1										
	753												
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K	<u>-, u</u>	<u></u>	AN	D P-0	<u> </u>	DES)						
COLUMN 1. LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			W.	COLUI ASTEI -WAS:	IA'			CC HANE	LUN			E
114	_K062	ť	}	ww	7	*	Non-ww		3	4	6) ₆	
		Į	}	ww	ĺ	1	Non-WW		3	4	5	6	
		ι	1	ww	ί]	Non-WW		3	4	5	6	
		ι)	WW	ſ	1	Non-WW		3	4	5	6	
		ί	ì	ww	ί	1	Non-WW		3	4	5	6	
[] CHECK HE	RE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE RE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESEN II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	T.	I	DEN7	1 FY	F	39 CON:	STITUE	-	-	_		LETING
SECTION V. C	ONTACT NAME AND DATE AG WT FOR 657	OO	Ĺ		Ь								
Print Name: _	THOMAS RYSILWILZ HOWY GROUP	ם	at	:e:			8-	76	-9	9			

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WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

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FOR SHIPMENT OF HAZARDOUS P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 AND SPECIAL WASTE State Form LPC 62 8/81 II 532-0610 PLEASE TYPE (Form designed for use on elite (12-pitch) typewnter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No 2050-0039 Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. 1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** Document No WASTE MANIFEST 889 A. Illinois Manifest Document Number 3. G65000 Thidustod Maling Haddreway Group Location If Different FEE PAID **414 Plaza Drive** IF APPLICABLE Suite 106 6499 Industrial Highway B. Generator's IL 心代表的理解 Westmont, IL 60559 Gary, IN 46406 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 ID Number 1 C. Transporter's 6. US EPA ID Number Jransporter 1 Company Name 15PECN D. Transporter's Phone (E. Transporter's 7. Transporter 2 Company Name R US EPA ID Number *ID Number F. Transporter's Phone (US EPA ID Number 9. Designated Facility Name and Site Address 10 Facility's IL G. Facility's IL 10 Number 10 13 11 16 10 10 10 15 11 Clean Harbors Services Inc 11800 South Stony Island Ave Chicago, IL 60617 SE Votestop vi H. Facility's Phone (646-6202 naaa 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Waste No. Total Unit No Type Quantity G a. RQ, Waste Corrosive Liquids, basic, Inorganic, N.O.S (Sodium Hydroxide, Potassium Hydroxide), 8, UN3266, II Ε N TO THE E **EPA HW Numbe** b. R T EPA HW Number 0 C. A d. 相处理论 J. Additional Description for Materials Listed Above 11a CH144194B K. Handling Codes for Wastes Listed Above in Item #14 機能的信息的物質的自然性影響等 AMERICAN, CLASSIAN AS CHE 的一致"你是红道的 15. Special Handling Instructions and Additional Information wo# NB192934 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name 16601 por 6500 Signatu Month Day Year 08 3/199 IND HOWYGROUP THOMAS RYSICULUZ 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Signature

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space B-12PW01240096 H

ACI

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name

MUNICO

Signature

Date Month Day

Year

s Agency is authorized to require, pursuant to illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021/ Information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center. that this information be submitted to the Agency. Failure to provide Falsification of this information may result in a fine up to \$50,000

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

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- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CNA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
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 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 = The waste 18 a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UNC's are NOT required to be identified.
 - 6 The waste 18 a lab pack that 18 intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV. lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, Ul34, and Ul51 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTANINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			Coli Wasti Non-Wai	EMY.	rer/			umn Ing		DE
	[]	D001	Ignitables, except High TOC subcategory	Į	_			Non-WW	1	2	3	4	6
	()	D001	High TOC Ignitable Liquids Subcategory	ι	1	Non-WW	on.	ly	1A	٠ _~	3	6	
11a	X	D002	(Greater than or equal to 10% TOC) Corrosives	ι	1	WW	X	Non-WW	1	(2)	3	4	6
		[]	Reactive Sulfide, per 261.23(a)(5)	Į)	WW	[]	Non-WW	1	3	4	5	6
		()	Reactive Cyanide, per 261.23(a)(5)	Į)	WW	[]	Non-WW	1	3	4	5	6
		()	Explosive, per 261.23(a)(6), (7) & (8)	ι	}	WW	[]	Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	1)	Non-WW	On.	ly	1	2	3	4	6
•		[]	Other Reactive, per 261.23(a)(1)	[)	WW	[]	Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	ί)	WW	[]	Non-WW	1	3	4	5	6
	[]	D004	Arsenic	1	}		()	Non-WW	1	2	3	4	6
	[]	D005	Barium	•	1	WW	[]	Non-WW	1	2	3	4	6
	[]	D006		_	_					_	_		_
		[]	Cadmium	- E)			Non-WW	1	2	3	4	6
		[]	Cadmium Containing Batteries	()	Non-WW		-	2	3	6		
	[]	D007	Chromium	()	WW	()	Non-WW	1	2	3	4	6
	[]	D008											
		[]	Lead	[)			Non-WW	1	2	3	4	6
			Lead Acid Batteries	ſ)	Non-WW	on	ly	2	3	6		

lanifest No. TUSH 3439

. I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

.JLUMN 1: E ITEM 'IFEST		COLUMN 2: WASTE CODE / NAME	;	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN HANDLING	
	[] D009	Low Mercury, less than 260 mg/kg Mercur High Mercury Organic Subcategory Righ Mercury Inorganic Subcategory Selenium Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D 2,4.5-TP (Silvex) Benzene Carbon tetrachloride Chlordane Chlorobenzene Chloroform o-Cresol m-Cresol p-Cresol Cresol 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethylene 2,4-Dinitrotoluene Heptachlor (and its epoxide) Hexachlorobenzene Hexachlorobenzene Hexachloroethane Methyl ethyl ketone Nitrobenzene Pentachloroethylene Pentachloroethylene Trichloroethylene 2,4,5-Trichlorophenol Vinyl Chloride	() () () () () () () () () ()	NON-WW ONLY NON-WW ONLY WW [] NON-WW	2 3 4 2 3 4 1 2 3 1 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 3 1 2 3	4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	1. ALL F000 2. Acetone 3. Benzene 4. n-Buty1 6. Carbon 7. Chlorob 8. O-Creso 9. m-Creso	[] 13. o-Dichlo [] 14. 2-Ethox only) alcohol disulfide tetrachloride enzene [] 17. Ethyl enterpolicy [] 18. Isobuty [] (difficult to [] 19. Methano	xanone orobenzene cyethanol (FO ccetate enzene ther cl alcohol	005 []	25. Pyridine 26. Tetrachlor 27. Toluene 28. 1,1,1-Tric ethane 29. 1,1,2-Tric ethane 30. Trichloro 31. 1,1,2-Tric	CODE 5 6 roethylene chloro- chloro- ethylene chloro-
-	p-cresol 10. p-Creso distingu m-cresol 11. Cresol		ene chloride ethyl ketone isobutyl ket inzene opropane (F00	e [] tone []	32. Trichloron methane	mixed isomer

CLEAN	HARBORS	ENVIRONMENTAL SERVICES, INC.	
LAND	DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1	

Manifest No. 12849434

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SECTION III.	CALIFORNIA LIST WASTES						•	ı			
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN ASTEWA -WASTE			CO HAND	LUM			
	Hazardous waste containing one or more of the following California List constituents:	[]	ww	[]	Non-	WW 1	2	3	4	5 6	
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg [] Liquids with thallium greater than or equal to 130 [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg										
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-	. <u>U</u> -	, AN	D P-CC	DES }						
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN ASTEWA -WASTE	-		HANE	LUM			
•											
		()	MM	ι ,	Non-	WW	3	4	5	6	
		()	WW	[]	Non-	MM	3	4	5	6	
		[]	WW	()	Non-	MM	3	4	5	6	
		[]	WW	()	Non-	MM	3	4	5	6	
		[]	MM	[]	Non-	WW	3	4	5	6	
[] CHECK H	ERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE ERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	T.	DEN	CIFY F	7039 C	ONSTITU					TING
SECTION V.	CONTACT NAME AND DATE										
Print Name:	THOMAS RYCIONICT	Da	te:		8-	31-9	Ý_				

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

٥	P.O. BOX 19	276 SPRIN	IGFIELD, ILLINOIS 62794-9276 (2 [.]	17) 782-6761	١ .			NT OF HAZARDOUS L WASTE
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П	WASTE MANIFEST 3. G65660 The describited in Markey (4	<u> </u>	A'I			nt Number
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	Clean Harbors Services Ir	nc Avo	• • • • • • • • • • • • • • • • • • • •					0 0 0 0 15 11
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SECTION I.

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA MASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45°; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106. P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

CHARACTERISTIC WASTES DOOL THROUGH DO43 7 COLUMN 1: COLUMN 3: COLUMN 4: COLUMN 2 · LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER [] WW [] Non-WW 1 2 3 4 [] D001 Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory [] Non-WW only 1A (Greater than or equal to 10% TOC) 1 (2) 3 Non-ww [] WW D002 Corrosives D003 [] - Reactive Sulfide, per 261.23(a)(5) [] Non-WW [] WW 1 3 Reactive Cyanide, per 261.23(a)(5) I) WW [] Non-WW [] 2 3 Explosive, per 261.23(a)(6), (7) & (8) [] WW [] Non-WW 1 2 3 [] Water Reactive. per 261.23(a)(2), (3) & (4) [] Non-WW only 1 [] WW [] Non-WW 1 1 Other Reactive, per 261.23(a)(1) 1 2 Unexploded Ordnance, Emergency Response [] WW [] Non-WW 3 1 () WW D004 Arsenic [] Non-WW [] WW [] Non-WW [] D005 Barıum [] D006 [] Non-WW [] Cadmium [] WW [] Non-WW only [] Cadmium Containing Batteries Non-ww [] WW D007 Chromium Q008 [] WW Non-WW Lead () Non-ww only [] Lead Acid Batteries

. . .

anifest No. TLHI 3110

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory	[] WW [] Non-WW [] Non-WW only [] Non-WW only	1 2 3 4 2 3 4 2 3 4
	[] D010 Selenium	[] WW [] Non-WW	1 2 3 4 6
	[] D011 Silver	[] WW [] Non-WW	1 2 3 4 6
	[] D012 Endrin	[] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6
	[] D013 Lindane [] D014 Methoxychlor	[] WW [] Non-WW [] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6
	[] D015 Toxaphene	[] WW [] Non-WW	2 3 4 5 6
	[] D016 2,4-D	[] WW [] Non-WW	2 3 4 5 6
	[] D017 2,4,5-TP (Silvex)	[] WW [] Non-WW	2 3 4 5 6
	[] D018 Benzene [] D019 Carbon tetrachloride	[] WW	1 2 3 4 6 1 2 3 4 6
	[] D020 Chlordane	[] WW [] Non-WW	1 2 3 4 6
	[] D021 Chlorobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D022 Chloroform	[] WW [] Non-WW	1 2 3 4 6
	[] D023 o-Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D024 m-Cresol [] D025 p-Cresol	[] WW	1 2 3 4 6
	[] D026 Cresol	[] WW [] Non-WW	1 2 3 4 6
	[] D027 1,4-Dichlorobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D028 1,2-Dichloroethane	[] WW [] Non-WW	1 2 3 4 6
	[] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene	[] WW	1 2 3 4 6
	[] D031 Heptachlor (and its epoxide)	[] WW [] Non-WW	1 2 3 4 6
	[] D032 Hexachlorobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D033 Hexachlorobutadiene	[] WW [] Non-WW	1 2 3 4 6
	[] D034 Hexachloroethane [] D035 Methyl ethyl ketone	[] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6
	[] D036 Nitrobenzene	[] WW [] Non-WW	1 2 3 4 6
	[] D037 Pentachlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D038 Pyridine	[] WW [] Non-WW	1 2 3 4 6
	[] D039 Tetrachloroethylene	[] WW [] Non-WW [] WW []	1 2 3 4 6
	<pre>[] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol</pre>	[] WW [] Non-WW [] Ww [] Non-WW	1 2 3 4 6
	[] D042 2,4,6-Trichlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D043 Vinyl Chloride	[] WW [] Non-WW	1 2 3 4 6
SECTION II.	SPENT SOLVENT WASTES FOO1 THROUGH FOO5		
COLUMN 1:	COLUMN 2:	COLUMN 3:	COLUMN 4:
LINE ITEM	WASTE CODE / CONSTITUENTS	WASTEWATER/	HANDLING CODE
SEE MANIFEST		NON-WASTEWATER	
	[] F001 [] F002 [] F003 [] F004 [] F005	[] WW [] Non-WW	3 4 5 6
[]	1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobenz 3. Benzene [] 14. 2-Ethoxyethano	ene [] 26	. Pyridine . Tetrachloroethylene . Toluene
[]	4. n-Butyl alcohol only)		. 1,1,1-Trichloro-
[]	5. Carbon disulfide [] 15. Ethyl acetate	f 1 00	ethane
[]	6. Carbon tetrachloride [] 16. Ethyl benzene 7. Chlorobenzene [] 17. Ethyl ether	[] 29	. 1,1,2-Trichloro- ethane
	8. o-Cresol [] 18. Isobutyl alcoh	101 [] 30	. Trichloroethylene
i i	9. m-Cresol (difficult to [] 19. Methanol		. 1,1,2-Trichloro-
_	distinguish from [] 20. Methylene chlo		1,2,2-trifluoroethane
r 3	p-cresol) 10. p-Cresol (difficult to [] 21. Methyl ethyl k [] 22. Methyl isobuty		. Trichloromonofluoro- methane
[]	10. p-Cresol (difficult to[] 22. Methyl isobuty distinguish from[] 23. Nitrobenzene		. Xylene - mixed isomer:
	m-cresol) [] 24. 2-Nitropropane		(sum of o-, m-, and
[]	11. Cresol - mixed isomers only)		p-xylene)
	(sum of o-,,m- and		
	p-cresol)		

CLEAN HARBORS	ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1

TI SUA 2469

LAND DISPOSAL	L RESTRICTION NOTIFICATION FORM LDR-1	manifest No		
SECTION III.	CALIFORNIA LIST WASTES			•
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2. 'WASTE CODE / SUBCATEGORY	WA	OLUMN 3: STEWATER/ WASTEWATER	COLUMN 4: HANDLING CODE
	Hazardous waste containing one or more of the formal List constituents: [] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to [] Liquids with thallium greater than or equal [] Liquids with PCB's > or = 50 ppm	o 134 mg/l	[] Non-WW	1 2 3 4 5 6
	[] Waste containing HOC's > or = 1,000 mg/kg	<u> </u>		
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F	039, K-, U-, AND	P-CODES)	
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	WA:	OLUMN 3: STEWATER/ WASTEWATER	COLUMN 4: HANDLING CODE
lla_	Koloz	[] WW	Non-WW	3 4 5)6
		() WW	() Non-WW	3 4 5 6
		() WW	[] Non-WW	3 4 5 6
		[] WW	[] Non-WW	3 4 5 6
-		() ww	[] Non-WW	3 4 5 6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: THOMAS J. RYSICAULY Two. HEWY EXCUPDATE: 9-1-99

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals; reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

CLEAN	HARBORS	ENVIRONMENTAL	SERVICES,	INC.		
LAND I	DISPOSAL.	RESTRICTION NO	TIFICATION	FORM	I.DR - 1	ADDENDUM

Manifest No. 16849 3469

SECTION I. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

- [] Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.
- [] Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

SECTION II. MULTI-SOURCE_LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

SECTION IV. LIST OF CONSTITUENTS - INCLUDE MANIFEST LINE ITEM

-			
250.	[] A2213 (*)	72.	[] Chlordane (alpha and gamma
34.	[] Acenaphthylene		isomers)
35.	[] Acenaphthene	73.	[] p-Chloroaniline
36.	[] Acetone	74.	[] Chlorobenzene
37.	[] Acetonitrile	75.	[] Chlorobenzilate
38.	[] Acetophenone	76.	[] 2-Chloro-1,3-butadiene
39.	[] 2-Acetylaminofluorene	77.	[] Chlorodibromomethane
40.	[] Acrolein	78.	[] Chloroethane
41.	[] Acrylamide (*)	79.	[] bis(2-Chloroethoxy)methane
42.	[] Acrylonitrile	80.	[] bis(2-Chloroethyl)ether
251.	[] Aldicarb sulfone (*)	81.	[] Chloroform
43.	[] Aldrin	82.	[] bis(2-Chloroisopropyl)ether
44.	[] 4-Aminobiphenyl	83.	[] p-Chloro-m-cresol
45.	[] Aniline	84.	[] 2-Chloroethyl vinyl ether (*)
46.	[] Anthrácene	85.	[] Chloromethane (Methyl Chloride)
47.	[] Antimony	86.	[] 2-Chloronaphthalene
48.	() Aramite	87	[] 2-Chlorophenol
49.	[] Arsenic	88. 11-1-	[,], 3-Chloropropylene
50.	[] alpha-BHC	89. TIUTO	Chromium (Total)
51.	[] beta-BHC	· . 90.	[] Chrysene
52.	[] delta-BHC	91.	[] o-Cresol
53.		92.	[] m-Cresol (difficult to
252.	[] Barban (*)		distinguish from p-Cresol)
54.	[] Damasum	93.	[] p-Cresol (difficult to
253.	[] Bendiocarb (*)		distinguish from o-Cresol)
254.	-	262.	[] m-Cumenyl methylcarbamate (*)
255.		94.	[] Cyanides (Total)
55.		95.	[] Cyanides (Amenable)
56.	[] Benz(a)anthracene	263.	[] Cycloate (*)
57.	[] Benzal chloride (*)	96.	() Cyclohexanone
58.	[] Benzo(b)fluoranthene (difficult	97.	[] 1,2-Dibromo-3-chloropropane
	to distinguish from	98.	[] 1,2-Dibromoethane (Ethylene dibromide)
	Benzo(k)fluoranthene)	99.	[] Dibromomethane
59.	Benzo(k)fluoranthene (difficult	100.	() 2,4-Dichlorophenoxyacetic acid (2,4-D)
	to distinguish from	101.	[] o,p'-DDD
	Benzo(b) fluoranthene)	102.	[] p,p'-DDD
60.	Benzo(g,h,1)perylene	103.	[] o,p'-DDE
61.	Benzo(a)pyrene	104.	() p,p'-DDE
62.	Berylium	105.	[] o,p'-DDT
63.	-	106.	() p,p'-DDT
64.	[] Bromomethane (Methyl bromide)	107	[] Dibenz(a,h)anthracene
		107.	[] Dibenzo(a,e)pyrene
66.	[] n-Butyl alcohol	100.	[] m-Dichlorobenzene
		109.	[] o-Dichlorobenzene
67.	[] Butyl benzyl phthalate	110.	[] p-Dichlorobenzene
68.	_ [] 2-sec-Butyl-4,6-dinitrophenol		[] Dichlorodifluoromethane
	(Dinoseb)	112. 113.	[] 1,1-Dichloroethane
69.	[] Cadmium	114.	[] 1,2-Dichloroethane
	-	114.	[] 1,1-Dichloroethylene
		115.	[] trans-1,2-Dichloroethylene
258	_ () Carbendazim (*)	116.	[] 2,4-Dichlorophenol
259.	_ [] Carbofuran (*)	117.	[] 2,4-Dichlorophenol
260.	_ [] Carbofuran phenol (*)	118.	· · · · · · · · · · · · · · · · · · ·
70.		119.	· · · · · · · · · · · · · · · · · ·
71	_ [] Carbon tetrachloride	120.	[] cis-1,3-Dichloropropylene
261.	_ [] Carbosulfan (*)	121.	[] trans-1,3-Dichloropropylene
	CHI Form	n LDR-1 Addendum, P	Page 1 of 3 [REVISED 08/24/98]

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236	[]	1,2,4-Trichlorobenzene	244	[]	1,1,2-Trichloro-1,2,2-trifluoroethane
237.		1,1,1-Trichloroethane	290.		Triethylamine (*)
238	()	1,1,2-Trichloroethane	245.		tris-(2,3-Dibromopropyl)phosphate
139		Trichloroethylene	246.		Vanadium (*)
240.	(1	Trichloromonofluoromethane	291.		Vernolate (*)
241	[]	2,4,5-Trichlorophenol	247.		Vinyl chloride
242.		2,4,6-Trichlorophenol	248.	i	Xylenesmixed isomers (sum of o-,
243.	()	1,2,3-Trichloropropane			m-, and p-xylene concentrations)
		• •	249.	[]	Zinc (*)

KEY TERMS/DEFINITIONS .

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in §268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in §268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 P.O. BOX 19276 10114 State Form LPC 62 8/81 IL532-0610 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No 2050-0039

4		UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US E		Manifest Document No.	2 Page 1	Informatio required to Illinois law	n in the shaded area by Federal law, but is rea	is is not quired by
	ļ	3. C65000 ThidnestoriNaling Maghaway Gr 414 Plaza Drive		If Different	1			ument Number	D. 1.
$\ $	Suite 106 6499 Industrial Highway B. Generator's Ille							IF APPLI	CABLE
		Westmont, IL 60559 4. *24 HOUR EMERGENCY AND SPILL ASSIST	ANCE NUMBERS 8	, IN 46406 00-645-8265		ID Numbe		81010111915	199
Ш	5	5. Transporter 1 Company Name	ک .6 مما حصت	15.4					
$\ $		Clean Harbons Enu, Schuice 7. Transporter 2 Company Name	8.			E. Transporte	ers	·	(00
П	L		B. US EPA ID Number Address 10. US EPA ID Number Ces Inc sland Ave T. I. D. 0. 0. 6. 0. 8. 4. 7. 1 Total Ouantity Liquids, basic, Inorganic, kide, Potassium Hydroxide), 8, D. Transporter's Phone (Cay) & for a containers of the containers o		<u>- 2-</u> 353 (* 2)				
П		9. Designated Facility Name and Site Address	10.	US EPA ID NO	ımber	G Facility's I	L x x	71 6 1 100 515	
П		Clean Harbors Services Inc 11800 South Stony Island F				ID Numbe	<u>r 10``13``1</u>	1 16 10 10 10 10	15 11
	Į,	Chicago II 60617			0 8 4 7 1	37	<u> </u>	/-3:-b4b-b202	
		11. 03 DOT Description (including Proper Shippin	ng Name, nazaru Cia	ass, and it Number)		, T	otal	Unit Waste	No.
G	1 5	a. RQ, Waste Corrosive Liquid	ls, bașic, Îr	norganic,				EPA HW Ni 合化的现在分词	Barrier .
N		N.O.S (Sodium Hydroxide, F UN3266, II	otassium Hyd	droxide), 8, ERG+15	ROO N	DFOO	4.4.0	14" 15 JULY 18"	0.2
E	16	2.	•	12195-13	7 000			EPA HW N	umber
A								Man T. See Life	大沙里 斯
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	-	1.		· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			11	EPA HW Nu	mber
١									3,70
	Ži	Additional Description for Materials Listed Abov	avousseers of the		veren en en en en en en en en en en en en e	· I I	odes for V	Vastes Listed Above	
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۱						And Allendaria	ining Nations	and Light was closed The Carlot Harmon	Broger &
l					14 (12)	S. C. Albert	i vi spa		
	1	5. Special Handling Instructions and Additional In	nformation					wo# NB19317	 71
	L			· - ·- ·- · · · · · · · · · · · · · · · ·					
	1	 GENERATOR'S CERTIFICATION: I hereby declar proper shipping name and are classified, packed, according to applicable international and national 	marked, and labeled, a	and are in all respects i					
		if I am a large quantity generator, I certify that I is be economically practicable and that I have select	have a program in plac	ce to reduce the volume	e and toxicity of w	aste generated	to the degr	ee I have determine	d to
ł	Ì	and future threat to human health and the enviror select the best waste management method that is	nment; OR, if I am a sn	mall quantity generator,	I have made a go	od faith effort to	minimize n	ny waste generation	and
l	┝		7 FOR 6500			•		Month Day	Year
Y	7	THOMAS J. RYSIMUICZ IND.	HEWY GROUP		-J G1	ung		0901	1919
T R	17	7. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signatore	1			Month Day	Year
200	L	ROBERT A. Schult		Rola	A Sol	rus		1019101	1919
TRANSPORTER	18	8. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature		<u> </u>		Date Month Day	Year
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Ţ	20	 Facility Owner or Operator: Certification of rece Printed/Typed Name 	pipt of hazardous mat	terials covered by this Signature	manifest except	as noted in iten	n 19.	Month Day	Year
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This Agency is authorized to require, pursuant to lithous Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Faisification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Manifest No. 1 8193470

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA LASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - I = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOOL THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ NON-WASTEWATER	на		LUMN JING		
	[]	D001	Ignitables, except High TOC subcategory	ĺ)	WW [] Non-WW	1	2	3	4	6
	[]	D001	High TOC Ignitable Liquids Subcategory	ι	1	Non-WW only	1.4		3	6	
119	X	D002	(Greater than or equal to 10% TOC) Corrosives	ſ	}	WW Non-WW	1	(2))3	4	6
	• •	[]	Reactive Sulfide, per 261.23(a)(5)	ſ	}	WW [] Non-WW	1	3	4	5	6
		[]	Reactive Cyanide, per 261.23(a)(5)	ſ	}	WW [] Non-WW	1	3	4	5	6
		[]	Explosive, per 261.23(a)(6), (7) & (8)	l]	WW [] Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	1)	Non-WW only	1	2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	[)	WW [] Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	1)	WW [] Non-WW	1	3	4	5	6
	[]	D004	Arsenic	()	WW [] Non-WW	1	2	3	4	6
	[]	D 005	Barium	ſ)	WW [] Non-WW	1	2	3	4	6
	[]	D006									
		[]	Cadmium	{)	WW () Non-WW	1	2	3	4	6
		[]	Cadmium Containing Batteries	(J	Non-WW only	2	3	6		
	[]	D007	Chromium	()	WW [] Non-WW	1	2	3	4	6
	[]	D008									
		[]	Lead	(•	WW [] Non-WW	1	2	3	4	6
		[]	Lead Acid Batteries	ι)	Non-WW only	2	3	6		

1.4

SECTION 1. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Inorganic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chlorobenzene [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D032 Hexachlorobutadiene [] D033 Hexachlorobutadiene [] D034 Hexachlorobutadiene [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachlorophenol	· · · · · · · · · · · · · · · · · · ·	1 2 3 4 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 1 2 3 4 6
	[] D038 Pyridine [] D039 Tetrachloroethylene [] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
SECTION II COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES FOO1 THROUGH FOO5 COLUMN 2: WASTE CODE / CONSTITUENTS [] FOO1 [] FOO2 [] FOO3 [] FOO4 [] FOO5	COLUMN 3: WASTEWATER/ NON-WASTEWATER [] WW [] NON-WW	COLUMN 4: HANDLING CODE 3 4 5 6
	1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobenz 3. Benzene [] 14. 2-Ethoxyethano 4. n-Butyl alcohol only) 5. Carbon disulfide [] 15. Ethyl acetate 6. Carbon tetrachloride [] 16. Ethyl benzene 7. Chlorobenzene [] 17. Ethyl ether 8. o-Cresol [] 18. Isobutyl alcoh 9. m-Cresol (difficult to [] 19. Methanol distinguish from [] 20. Methylene chlorop-cresol) [] 21. Methyl ethyl h 10. p-Cresol (difficult to [] 22. Methyl isobutyl distinguish from [] 23. Nitrobenzene m-cresol) [] 24. 2-Nitropropane (Sum of o-, m- and p-cresol)	26 26 27 28 29 29 29 29 29 29	5. Pyridine 5. Tetrachloroethylene 7. Toluene 8. 1,1,1-Trichloroethane 9. 1,1,2-Trichloroethane 1. 1,2-Trichloroethane 1. 1,2-Trichloroethane 2. Trichloromonofluoroemethane 8. Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.

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LAND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1	danifest No.	
SECTION III.	CALIFORNIA LIST WASTES	•	'
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3. Wastewater/ Non-Wastewater	COLUMN 4: HANDLING CODE
	Hazardous waste containing one or more of the follo	owing [] WW [] Non-WW	1 2 3 4 5 6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to I [] Liquids with thallium greater than or equal to [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>		
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F03	9, K-, U-, AND P-CODES)	
COLUMN 1:	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/	COLUMN 4:

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUM Wastew Non-Wast	ATER/	HAND	LINC		
	ч	[] WW [] Non-WW	3	4	5	6
		[] WW [] Non-WW	3	4	5	6
		() WW (] Non-WW	3	4	5	6
		[] WW [) Non-WW	3	4	5	6
		[] WW [) Non-WW	3	4	5	6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

SECTION V. CONTACT NAME AND DATE

Print Name: THOMAS J. RYSILWIKZ IND. HEWY GROUP Date: 9-1-99

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can: be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

INDIANA DEPARTMENT OR ENVIRONMENTAL MANAGEMENT OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT P.O. Box 7035

6499 INDUSTRIAL HICHAY GROUP 48 PIAZA DRIVE STITE 106 Generator's Telephone Number (800) 645-8265 Generator's Telephone Number (800) 645-8265 Transporter I Company Name Class FAID Number A. J. J. J. J. J. J. J. J. J. J. J. J. J.	PLEASE PRINT OR TYPE	(Form designed,fo	or use on elite (12-pitch) typ	pewriter.) F	orm Approved:`C	OMB No. 2050-0	0039: Expires 9-30
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Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest (except as noted in Item 19).	Discrepancy Indication Space	1			· · · · · · · · · · · · · · · · · · ·		<u>• 1 • 1 • </u>
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EPA Form 8700-22 Previous editions are obsolete State Form 45273 (R / 6-97)

the National Response Center at 800 / 424-8802 or 202 / 426-2675.

In ce and t CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. INA 133410

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA STE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

 Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 The waste is a characteristic hazardous waste DOO1 (other than High TOC Ignitable Liquids), DOO2, DOO3 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States. all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternace debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(1v)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CH	ARAC	TERIST	IC WASTES DOO1 THROUGH DO43									
COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY		COLI WASTI NON-WA	EWA:	TER/		-		14: CO	
	[]	D001	Ignitables, except High TOC subcategory	{ }	WW	()	Non-WW	1	2	3	4	6
	[]	D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[]	Non-WW	on:	ly	18		3	6	
	[]	D002	Corrosives	[]	WW	[]	Non-WW	1	2	3	4	6
	[]	D003					_		_			
		[]	Reactive Sulfide, per 261.23(a)(5)	[]	WW	()	Non-WW	1	3	4	5	6
		{ }	Reactive Cyanide, per 261.23(a)(5)	{ }	WW	{ }	Non-WW	1	3	4	5	6
		[]	Explosive, per 261.23(a)(6), (7) & (8)	[]	WW	()	Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW	on.	ly	1	2	3	4	6
		{ }	Other Reactive, per 261.23(a)(1)	[]	WW	[]	Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	()	WW	()	Non-WW	1	3	4	5	6
	{ }	D004	Arsenic	[]	WW	{ }	Non-WW	1	2	3	4	6
	[]	D005	Barıum	[]	WW	[]	Non-WW	1	2	3	4	6
	[]	D006										
		[]	Cadmium	1 1	WW	()	Non-WW	1	2	3	4	6
			Cadmium Containing Batteries	Ĺĺ	Non-WW	on.	lγ	2	3	6		
116	(),	D007	Chromium	Ĺĺ	WW		Non-WW	1	2	3	4	6
	V i	D008		• •	•	1						
		ίχί	Lead	[]	ww `	Xı.	Non-WW	1	(z)	3	4	6
			Lead Acid Batteries	[]	Non-WW	on.	ly	2	3	6		

p-cresol)

930 ×

SECTION 1. CHARACTERISTIC WASTES DOO1-43 (CONTINUED)

COLUMN 1. INE ITEM LE MANIFEST			COLUMN 2: WASTE CODE / NAME			COLUMN WASTEWAT NON-WASTEW	ER/		LUMN LING		E
	, ,			!'d:							
	()	D009	Low Margury Long than 260 ()			tru ()	N 1403	, ,			
		[]	Low Mercury, less than 260 mg/kg	•			Non-WW	1 2		4	
		[]	High Mercury Organic Subcategor			Non-WW onl	-	2 3 2 3			
	[]	D010	High Mercury Inorganic Subcatego Selenium	-	{ } []	Non-WW onl	y Non-WW	2 3		4 (6
	[]	D010	Silver		[]	1 1	Non-WW	1 2			5 5
	ii	D012	Endrin		ij		Non-WW	2 3	4		6
	ii	D013	Lindane		ii	T 7	Non-WW	2 3	-		6
	ìi	D014	Methoxychlor	1	ii	I I	Non-WW	2 3		_	6
	ίj	D015	Toxaphene	i	()	WW []	Non-WW	2 3	4	5	6
	[]	D016	2,4-D		[]	WW []	Non-WW	2 3	4	5 (6
	[]	D017	2,4,5-TP (Silvex)		1 }	WW []	Non-WW	2 3	4	5 (6
	[]	D018	Benzene		[]	MM PY	Non-WW	1 2	3	4	б
	11	D019	Carbon tetrachloride	į.	[]		Non-WW	1 3	, 3	4 :	5
		D020	Chlordane	1	()	. •	Non-WW	1 (Z	3		5 -
	[]	D021	Chlorobenzene		()		Non-WW				5
	[]	D022	Chloroform		()	I I	Non-WW	1 2	3		5
	[]	D023	o-Cresol	4.27		2 2	Non-WW	1 2	3	-	5
	()	D024	m-Cresol		()		Non-WW	1 2	3	4 (_
	[]	D025	p-Cresol				Non-WW	1 2	3		5
	[]	D026	Cresol		[}		Non-WW	1 2	3		5
	[]	D027 D028	1,4-Dichlorobenzene	([]		WW-noM	12	3 3		5 5
	[]	D028	1,2-Dichloroethane 1,1-Dichloroethylene		[]		Non-WW	1 2	3		5
	1 1	D030	2,4-Dinitrotoluene	<u>y</u>			Non-WW	1 2	3	-	5
	ίi	D031	Heptachlor (and its epoxide)		íí		Non-WW	1 2	3		5
	ii	D032	Hexachlorobenzene	,	Ĺ	1 1	Non-WW	1 2	3	4 (5
	ii	D033	Hexachlorobutadiene		íí	1 1	Non-WW	1 2	3	4 (5
	ii	D034	Hexachloroethane		Ü	WW []:	Non-WW	1 2	3	4 (5
	ίj	D035	Methyl ethyl ketone		()	WW []:	Non-WW	1 2	3	4 (5
	Ü	D036	Nitrobenzene	ĺ	()	WW []:	Non-WW	1 2	3	4 (5
	[]	D037	Pentachlorophenol	i	()	WW []	Non-WW	1 2	3	4 (5
	()	D038	Pyridine	(()	WW []	Non-WW	1 2	3	4 (5
	[]	D039	Tetrachloroethylene	1	()	WW []	Non-WW	1 2	3	4 (5
	()	D040	Trichloroethylene	1	[]	WW []	Non-WW	1 2	3	4 (5
	[]	D041	2,4,5-Trichlorophenol		()		Non-WW	1 2	3	-	5
	[]	D042	2,4,6-Trichlorophenol		[]		Non-WW	1 2	3		5
	[]	D043	Vinyl Chloride	ļ	()	WW []	Non-WW	1 2	3	4 (5
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT	SOLVE	COLUMN 2: WASTE CODE / CONSTITUENTS	*:		COLUMN WASTEWAT NON-WASTEW	ER/	CO HAND	LUMN LING		E
		5001	() 7000 () 7000 () 7000	1) 5005		*****		,			
	1 1	F001	[] F002 [] F003 [] F004	[] F005	()	MM []	Non-WW	3	4 9	5 6	
()	1. AL	L F001	-F005 { } 12.0	Cyclohexanone			[]	25. Pyrid	ıne		
	2. Ac	etone	 · /	o-Dichlorobenzen				26. Tetra		roeti	nyl e ne
[]		nzene		2-Ethoxyethanol	(FC	005		27. Tolue			
 !!				nly)			. []	28. 1,1,1		chlo	ro-
[]				Ethyl acetate				ethane			
[]				Ethyl benzene			. ()	29. 1,1,2		culo	ro-
[]		lorobe:		Ethyl ether	1		1 1	ethane 30. Trich		o t- b	lane
[]	8. O-1			I <i>sobutyl alcohol</i> Methanol	L			30. Trich 31. 1,1,2		•	
				methanoi Methylene chlori	do		,				oethane
		resol)		Methylene Chiori Methyl ethyl ket		•	[]	32. Trich			
	-			Methyl isobutyl				methan			
` '	-			Nitrobenzene			[]	33. Xylen		nı xer	l isomers
		resol)		2-Nitropropane ((FOC	05	,	(Bum o			
				nly)				p-xyle			
			m- and					,	•		

CLEAR	HARBORS	ENVIRONMENTA	AL SERVICES,	INC.	
LAND	DISPOSAL	RESTRICTION	NOTIFICATION	FORM	LDR-1

PWND DISLOSVE	RESTRICTION NOTIFICATION FOR LDR-1	o	· –				<u>,,,,,</u>					
SECTION III.	CALIFORNIA LIST WASTES											
TOLUMN 1: INE ITEM JEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W)	_	۸A	3: TER/ WATER			LUM Lin		: CODE	;
	Hazardous waste containing one or more of the following California List constituents:	[]	ww	ŧ	1	Non-WW	1 2		3	4	5	6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg, [] Liquids with thallium greater than or equal to 130 mg [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>											
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-,	บ-	, ANI) P-(<u></u>	DES)						
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W.		VA.	3: TER/ WATER			LUM		: ODE	[* -
	.:	()	WW	ŧ)	Non-WW		3	4	5	6	
		[}	WW	ι)	Non-WW		3	4	5	6	
		[]	WW	ĺ	}	Non-WW		3	4	5	6	
		[]	ww	ι)	Non-WW		3	4	5	6	
		į)	WW	ι)	Non-WW		3	4	5	6	
[] CHECK HE	RE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE RE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED		I DENT	IFY	F	039 CONS	I I TUENT					ET INC
SECTION V. CO	ONTACT NAME AND DATE ACCUT FOR 6500					_						
Print Name:	THOMAS J RYSICUICZ IND HELLY GROUN	<i>P</i> Da	te: _		_	9-1	1-99	? 				

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm) "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

CLEAN	HARBORS	ENVIRONMENTA	AL SERVICES,	INC.		
LAND	DISPOSAL	RESTRICTION	NOTIFICATION	FORM	LDR-1	ADDENDUM

Manifest No

INA1339455

SECTION.	1.	UNDERLYING	HAZARDOUS	CONSTITUENTS	(IHC'S)
~~~···		DINDBINDIANO	ILLEAK DOOS	CONSTITUTION	(0110, 3)

Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

[ ] Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste

## SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [ ] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

# SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

CFR 26	8.40 is "Not Applicable" , i.e. D001, D002, a	na Duus (non-cyan	indes subcategories only).
SECTION IV	LIST OF CONSTITUENTS - INCLUDE MANIFEST LINE	- TTDM / /	
DECITOR IV.	DIST OF CONSTITUENTS - INCLUDE PARTIEST BINE		
250.	[ ] A2213 (*)	72.	[ ] Chlordane (alpha and gamma
· · ·		/*· — <del>   · · · · · · · · · · · · · · · · · · </del>	180mers)
	<del></del>	73.	[] p-Chloroaniline
36		74.	[] Chlorobenzene
36. 37.	[] Acetonitrile	75.	[] Chlorobenzilate
38.	[] Acetophenone	76.	[] 2-Chloro-1,3-butadiene
39.	[] 2-Acetylaminofluorene	77.	[] Chlorodibromomethane
40		78.	[] Chloroethane
41.	[] Acrylamide (*)	79.	[] bis(2-Chloroethoxy)methane
42.	[] Acrylonitrile	80.	[] bis(2-Chloroethyl)ether
251.	( ) Aldicarb sulfone (*)	81.	[] Chloroform
43	[ ] ] ]	82.	[ ] bis(2-Chloroisopropyl)ether
44.	[] 4-Aminobiphenyl	83.	[] p-Chloro-m-cresol
45.	[] Aniline	84.	[ ] 2-Chloroethyl vinyl ether (*)
46.	[] Anthracene	85.	[ ] Chloromethane (Methyl Chloride)
47.	[ ] Antimony	86.	[ ] 2-Chloronaphthalene
3.	[] Aramite	87.	[ ] 2-Chlorophenol
.9.	[] Argenic	88.	[] 3-Chloropropylene
50.	[] alpha-BHC	89.	[] Chromium (Total)
51.	[] beta-BHC	90.	[] Chrysene
52.	[] Deca-BHC	91.	[] o-Cresol
53.			[] m-Cresol (difficult to
		92.	distinguish from p-Cresol)
252 54.		0.2	[] p-Cresol (difficult to
	[] Barium	93.	distinguish from o-Cresol)
253		040	
254		262	[ ] m-Cumenyl methylcarbamate (*) [ ] Cyanıdes (Total)
255. 55.	[] Benomyl (*)	94.	[ ] Cyanides (Amenable)
56.	[] Benzene	95	[] Cycloate (*)
	[] Benz(a) anthracene	263.	
57.	[] Benzal chloride (*)	96.	[ ] Cyclohexanone
58.	[] Benzo(b)fluoranthene (difficult	97.	[] 1,2-Dibromo-3-chloropropane
	to distinguish from	98.	[] 1,2-Dibromoethane (Ethylene dibromide)
	Benzo(k)fluoranthene)	99.	[] Dibromomethane
59	Benzo(k)fluoranthene (difficult	100	[ ] 2,4-Dichlorophenoxyacetic acid (2,4-D)
	to distinguish from	101	[ ] o,p'-DDD
	Benzo(b) fluoranthene)	102	[ ] p,p'-DDD
60	[ ] Benzo(g,h,1)perylene	103	[ ] o,p'-DDE
61	[ ] Benzo(a)pyrene	104	[] p,p'-DDE
62	( ) Berylium	105	( ) o,p'-DDT
63.	[ ] Bromodichloromethane	106.	() p,p'-DDT
64	[ ] Bromomethane (Methyl bromide)	107	[ ] Dibenz(a,h)anthracene
65. <u> </u>	[ ] 4-Bromophenyl phenyl ether	108	[ ] Dibenzo(a,e)pyrene
66	[] n-Butyl alcohol	109.	[ ] m-Dichlorobenzene
256	[ ] Butylate (*)	110	[ ] o-Dichlorobenzene
67.	[ ] Butyl benzyl phthalate	711	[ ] p-Dichlorobenzene
68.	[ ] 2-sec-Butyl-4,6-dinitrophenol	112.	[ ] Dichlorodifluoromethane
	(Dinoseb)	113.	[ ] 1.1-Dichloroethane
69.	[] Cadmium	114.	[ ] 1,2-Dichloroethane
257.	[ ] Carbaryl (*)	115.	<pre>{ } 1,1-Dichloroethylene</pre>
258	[ ] Carbendazım (*)	116	[ ] trans-1,2-Dichloroethylene
259.	[ ] Carbofuran (*)	117.	[ } 2,4-Dichlorophenol
260.	[ ] Carbofuran phenol (*)	118.	[ ] 2,6-Dichlorophenol
70.		119.	[ ] 1,2-Dichloropropane
71.	[ ] Carbon tetrachloride	120.	[ ] cis-1,3-Dichloropropylene
261.		121	[] trans-1,3-Dichioropropylene
			Page 1 of 3   IPEVICED 08/24/98]

122.	[ ] Dieldrin	181	[ ] Methyl ethyl ketone
123.	[ ] Diethyl phthalate	182	[ ] Methyl isobutyl ketone
754.	[ ] Diethylene glycol, dicarbamate (*)	193	[ ] Methyl methacrylate
·		103.	[] Methyl methansulfonate
<u>.</u>		184	· ·
∠5	[ ] Dimethyl phthalate	185.	[ ] Methyl parathion
126.	[ ] Di-n-butyl phthalate	274.	[] Metolcarb (*)
127	[ ] 1,4-Dinitrobenzene	275	[ ] Mexacarbate (*)
128.	( ) 4,6-Dinitro-o-cresol	276.	[ ] Molinate (*)
129.	[ ] 2,4-Dinitrophenol	186.	[ ] Naphthalene
130.	[ ] 2,4-Dinitrotoluene	187.	[ ] 2-Naphthylamine
	[] 2,6-Dinitrotoluene	100	[] Nickel
		188.	
132.	[ ] Di-n-octyl phthalate	189.	[ ) o-Nitroaniline (*)
265.	[] Dimetilan (*)	190.	[ ] p-Nitroaniline
133.	[ ] p-Dimethylaminoazobenzene (*)	191.	[ ] Nitrobenzene
134.	[ ] Di-n-propylnitrosoamine	192.	[ ] 5-Nitro-o-toluidine
135.	[ ] 1,4-Dloxane (*)	193.	[ ] o-Nitrophenol (*)
136		194	[] p-Nitrophenol
136.	· · · · · · · · · · · · · · · · · · ·	194.	
	distinguish from	195.	[] N-Nitrosodiethylamine
	diphenylnitrosamine)	196	[ ] N-Nitrosodimethylamine
137	[ ] Diphenylnitrosamine (difficult to	197.	[ ] N-Nitroso-di-n-butylamıne
<del></del>	distinguish from diphenylamine)	198.	[ ] N-Nitrosomethylethylamine
138.	[ ] 1,2-Diphenylhydrazine	199.	[] N-Nitrosomorpholine
130	[] Disulfoton	200	[] N-Nitrosopiperidine
139.	1 1	200.	
266.	[ ] Dithiocarbamates (Total) (*)	201.	[ ] N-Nitrosopyrrolidine
140	[ ] Endosulfan I	277	( ) Oxamyl (*)
141	[ ] Endosulfan II	202	[ ] Parathion
142.	[ ] Endosulfan sulfate	203.	[ ] Total PCBs (sum of all PCB isomers,
143.	[ ] Endrin		or all Arochlors)
144	[] Endrin aldehyde	278.	[ ] Pebulate (*)
144		200	
267	[ ] EPTC (*)	204.	
145	( ) Ethyl acetate	205	[ ] PeCDDs (All pentachlorodibenzo-
146.	[ ] Ethyl cyanide (propanenitrile)		b-qroxtus)
147.	[ ] Ethyl benzene	206.	[ ] PeCDFs (All pentachlorodibenzofurans)
148.	[] Ethyl ether	207.	[ ] Pentachloroethane (*)
149	[ ] bis(2-Ethylhexyl)phthalate	200	[] Pentachloronitrobenzene
149.	• • •	208.	
150.	[ ] Ethyl methacrylate	209.	[ ] Pentachlorophenol
151	( ) Ethylene oxide	210	[ ] Phenacetin
152.	[ ] Famphur	211.	[ ] Phenanthrene
153.	[ ] Fluoranthene	<b>212</b> .	[ ] Phenol
54.	[ ] Fluorene	279.	[ ] o-Phenylenediamine (*)
.55	[] Fluoride	213	[] Phorate
155.		213.	[ ] Phthalic acid (*)
268.	[ ] Formetanate hydrochloride (*)	214.	
269.	[ ] Formparanate (*)	215.	[] Phthalic anhydride
156.	[ ] Heptachlor	280.	[ ] Physostigmine (*)
157.	[ ] Heptachlor epoxide	281.	[ ] Physostigmine salicylate (*)
158.	[ ] Hexachlorobenzene	282.	[ ] Promecarb (*)
159.	[] Hexachlorobutadiene	216	[] Pronamide
160		216.	
160.	Hexachlorocylopentadiene	283.	[ ] Propham (*)
161.	[ ] HxCDDs (All hexachlorodibenzo-	284.	[] Propoxur (*)
	p-dioxins)	285	[ ] Prosulfocarb (*)
162.	[ ] HxCDFs (All hexachlorodibenzo-	217.	
<del></del>			[ ] Pyrene
	furans)	218.	<u> </u>
163.	furans)	218	[] Pyridine
163.	[ ] Hexachloroethane	218	[ ] Pyridine [ ] Safrole
164	[ ] Hexachloroethane [ ] Hexachloropropylene	218 219 220	[ ] Pyridine [ ] Safrole [ ] Selenium
164. 165.	<ul><li>Hexachloroethane</li><li>Hexachloropropylene</li><li>Indeno (1,2,3-c,d)pyrene</li></ul>	218. 219. 220. 221.	[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver
164	<ul> <li>Hexachloroethane</li> <li>Hexachloropropylene</li> <li>Indeno (1,2,3-c,d)pyrene</li> <li>3-Iodo-2-propynyl</li> </ul>	218. 219. 220. 221.	<pre>[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver [ ] Silvex (2,4,5-TP)</pre>
164. 165. 270.	<ul><li>Hexachloroethane</li><li>Hexachloropropylene</li><li>Indeno (1,2,3-c,d)pyrene</li></ul>	218. 219. 220. 221.	[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver
164. 165. 270.	<ul> <li>Hexachloroethane</li> <li>Hexachloropropylene</li> <li>Indeno (1,2,3-c,d)pyrene</li> <li>3-Iodo-2-propynyl</li> </ul>	218 . 219 . 220 . 221 . 222 .	<pre>[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver [ ] Silvex (2,4,5-TP)</pre>
164. 165. 270.	<pre>[ ] Hexachloroethane [ ] Hexachloropropylene [ ] Indeno (1,2,3-c,d)pyrene [ ] 3-Iodo-2-propynyl</pre>	218. 219. 220. 221.	<pre>[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver [ ] Silvex (2,4,5-TP) [ ] Sulfide</pre>
164	<pre>[ ] Hexachloroethane [ ] Hexachloropropylene [ ] Indeno (1,2,3-c,d)pyrene [ ] 3-lodo-2-propynyl</pre>	218. 219. 220. 221. 222. 223. 224.	<pre>[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver [ ] Silvex (2,4,5-TP) [ ] Sulfide [ ] 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)</pre>
164. 165. 270. 166. 167. 168	<pre>[ ] Hexachloroethane [ ] Hexachloropropylene [ ] Indeno (1,2,3-c,d)pyrene [ ] 3-lodo-2-propynyl</pre>	218. 219. 220. 221. 222. 223. 224.	<pre>[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver [ ] Silvex (2,4,5-TP) [ ] Sulfide [ ] 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) [ ] 1,2,4,5-Tetrachlorobenzene</pre>
164. 165. 270. 166. 167. 168 271.	[] Hexachloroethane [] Hexachloropropylene [] Indeno (1,2,3-c,d)pyrene [] 3-Iodo-2-propynyl	218. 219. 220. 221. 222. 223. 224.	<pre>[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver [ ] Silvex (2,4,5-TP) [ ] Sulfide [ ] 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) [ ] 1,2,4,5-Tetrachlorobenzene [ ] TCDDs (All tetrachlorodibenzo-</pre>
164. 165. 270. 166. 167. 168 271.	[ ] Hexachloroethane [ ] Hexachloropropylene [ ] Indeno (1,2,3-c,d)pyrene [ ] 3-Iodo-2-propynyl	218	<pre>[] Pyridine [] Safrole [] Selenium [] Silver [] Silvex (2,4,5-TP) [] Sulfide [] 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) [] 1,2,4,5-Tetrachlorobenzene [] TCDDs (All tetrachlorodibenzo-p-dioxins)</pre>
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164. 165. 270. 166. 167. 168 271. 169.	<pre>[ ] Hexachloroethane [ ] Hexachloropropylene [ ] Indeno (1,2,3-c,d)pyrene [ ] 3-Iodo-2-propynyl</pre>	218	<pre>[] Pyridine [] Safrole [] Selenium [] Silver [] Silvex (2,4,5-TP) [] Sulfide [] 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) [] 1,2,4,5-Tetrachlorobenzene [] TCDDs (All tetrachlorodibenzo-p-dioxins)</pre>
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164. 165. 270. 166. 167. 168 271. 169. 170. 171.	[ ] Hexachloroethane [ ] Hexachloropropylene [ ] Indeno (1,2,3-c,d)pyrene [ ] 3-lodo-2-propynyl	218	<pre>[ ] Pyridine [ ] Safrole [ ] Selenium [ ] Silver [ ] Silvex (2,4,5-TP) [ ] Sulfide [ ] 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) [ ] 1,2,4,5-Tetrachlorobenzene [ ] TCDDs (All tetrachlorodibenzo-p-dioxins) [ ] TCDFs (All tetrachlorodibenzofurans) [ ] 1,1,1,2-Tetrachloroethane [ ] 1,1,2,2-Tetrachloroethane</pre>
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164. 165. 270.  166. 167. 168 271. 169. 170. 171. 172. 173. 174 175. 176.	[ ] Hexachloroethane [ ] Hexachloropropylene [ ] Indeno (1,2,3-c,d)pyrene [ ] 3-Iodo-2-propynyl	218. 219. 220. 221. 222. 223. 224.  225. 226.  227. 228. 229. 230. 231. 232. 286.	<pre>[] Pyridine [] Safrole [] Selenium [] Silver [] Silvex (2,4,5-TP) [] Sulfide [] 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) [] 1,2,4,5-Tetrachlorobenzene [] TCDDs (All tetrachlorodibenzo-p-dioxins) [] TCDFs (All tetrachlorodibenzofurans) [] 1,1,2-Tetrachloroethane [] 1,1,2-Tetrachloroethane [] Tetrachloroethylene [] 2,3,4,6-Tetrachlorophenol [] Thallium [] Thiodicarb (*)</pre>
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		NENTAL SERVICES, INC. TON NOTIFICATION FORM LDR-1	ADDENDUM Mänıí	fest No	INA 133965
236	(1	1,2,4-Trichlorobenzene	244.	( )	1,1,2-Trichloro-1,2,2-trifluoroethane
237.	[ ()	1,1,1-Trichloroethane	290	_ (i	Triethylamine (*)
`8		1,1,2-Trichloroethane	245.	— ii	tris-(2.3-Dibromopropyl)phosphate
/	_ ()	Trichlordethylene	246.	_ ()	Vanadium (*)
	_ ()	Trichloromonofluoromethane	291.		Vernolate (*)
241.	[ []	2,4,5-Trichlorophenol	247.	( )	Vinyl chloride
242.	[ ]	2,4,6-Trichlorophenol	248.		Xylenesmixed isomers (sum of o-,
243.		1,2,3-Trichloropropane		_ ,	m-, and p-xylene concentrations)
	-		249	[]	Zinc (*)

#### KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in \$268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in \$268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinch which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]

[REVISED 08/24/98]

CINDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT P.O. Box 7035

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In c. Jf a spill, call the Indiana Office of Environmental Response at 317/23-7745 (day or night) and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

# TSCA MANIFEST CONTINUATION FORM

MANIFEST NUMBER: TNA 135720 GENERATOR NAME:	6500 Draws Line Cay
ADDRESS:	13/19 Industrial in
	FARY TRO YENCE
EPA ID NUMBER:	IND CAU 288.267

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# **NOTES**

- 1. Type/Description: Brief description of the unit such as:
  - (i) Transformer ( > 500 ppm or < 500 ppm) (ii) Capacitor (iii) Bulk Liquid/Solid (tanker or rolloff)
  - (Iv) PCB Container A container in direct contact w/ PCBs, such as a drum containing PCB spill debris
  - (v) PCB Article Container A container not in direct contact w/ PCBs, such as a drum containing one or more non-leaking motors, light ballasts, etc.
- 2. Serial No. or Other ID No.: Serial Number must be reported if one is present; if not, assign a unique number.
- 3. Date Removed From Service For Disposal: The date when the item was taken out of service for disposal. If mo than one item (batch) is present in the container (tank), the reported date for the entire container (tank) m be the first (i.e., the earliest) date.
- 4. Weight: Volume may be reported in gallons; however, the weight in kilograms is preferred.



# MASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Required under authority of Part 111 and Part 121 of Act 481, 1994, as amended.

Fallure to tile may subject found criminal and/or civil penalties under Section 324.11161 or 324.12116 NCL.

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# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste Treatment
Plant

(Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831 ☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. 1-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name

6500 INDUSTRIAL HWY GROUP

Generator USEPA ID No.

IND040888992

Generator Address

6499 INDUSTRIAL HWY, GARY, IN 46406

State Manifest No.

M17915333

Manifest Doc. No.

15333

# INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest	Ι	2.	3.	4.	5. REFERENCE NUMBER(S)
Line Item	USEPA	NWW	SUBCATEGORY	HOW MUST THE	of Hazardous Constituents
Ħ	HAZARDOUS	or	,	WASTE BE	contained in the waste.
	WASTE	ww		MANAGED?	Complete for F001-F005, F039,
	CODE(S)			(Circle one)	D001-D043, Soil & Debris wastes.
11.A	D040	⊠nww □ww	N/A	A	204
11.B	i	□nww □ww		i	
11.C		□nww □ww			
11.D		□ww □ww			

I hereby certify that	all information submitted on this and all asso	ociated documents	is complete and accurate to the bes	t of my
knowledge and infor			A6007 FOR 6500 I	JOUSTRIA
Generator Signature	Them Relein	Title	HIGHWAY GROUP	<del></del>
Printed Name	THOMAS RYSIGNICZ	Date	9-14-99	····

## HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES/DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES/DOES NOT EXHIBIT A (CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

m designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Sev. 6-89) Form Approved OMB No. 2050-0039

<u> </u>	LEASE ITPE (Form designed for use on elite (12-pitch) typewriter)	EPA Form 8700-22 (3)	ev. 6-89)		Form App	roved OM	B No 20	50-0039
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Н	Chicago, IL 60617	LD000608	471	H. F	cility's	Phone (	773 ⁾ (	546-6202
	11. US DOT Description (Including Proper Shipping Name, Hazard Cla	ass, and ID Number)	12. Conta	iners Type	1	13 Total Jantity	14. Unit	Waste No.
G	a. HAZARDOUS WASTE SOLID, N.O.S. (METHYLI	ENE CHLOKIDE,		,,,			1	EPA HW Number學
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	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of proper shipping name and are classified, packed, marked, and labeled,	and are in all respects in prope					,	
	according to applicable international and national government regulation  If I am a large quantity generator, I certify that I have a program in pla		oxicity of w	aste de	nc.ated	to the de	earee 1 h	ave determined to
l	be economically practicable and that I have selected the practicable me and future threat to human health and the environment, OR, if I am a si	ethod of treatment, storage, or	disposal cui	rrently a	available	to me w	hich min	imizes the present
	select the best waste management method that is available to me and t	that I can afford.	made a go	ou luiui	0	, , , , , , , , , , , , , , , , , , ,	) iiiy iiu	Date
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	19. Discrepancy Indication Space 7 900019999	1-2104		-	-			,
F								
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L	20. Facility Owner or Operator: Certification of receipt of hazardous mai	terials covered by this ma	est except	as note	ed in ite	m 19.	1	Date
Y	Printed/Typed Name	Signature	J. JAJOpt		77			Month Day Year
	LESSE Schausic	1 Chuns	<b>,</b>	D)	rue	1_	1	10/1399
1	his Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter is information may result in a civil penalty against the owner or operator not to ex	r 111 1/2, Section 1804 and 102 sceed \$25,000 per day of violation	that this i	nformatio	n be su informat	bmitted to	the Agen	cy. Failure to provide a fine up to \$50.000
č	er day of violation and imprisonment up to 5 years. This form has been approved by the Forms Ma	enagement Center.						op 10 400,000

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WAST CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER TH LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EP. WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TORMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

  Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also chec applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LOR Handling Code: Circle the appropriate handling code, as follows:
  - 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended fo treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
  - 1A The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater tha or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) o combustion (CMBST) technology. UHC's are NOT required to be identified.
  - 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D00 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 whic is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA syste located in the United States. All UHC's which are reasonably expected to be present must be identified except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach complete Addendum to this form.
  - 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, o: P-code) hazardous waste which i intended for export and treatment/disposal at a facility located outside the United States. LDR treatmen standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, th identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported Note however that if the exported waste is subsequently returned for treatment/disposal in the United States all applicable LDR regulations would apply and a revised LDR notification would be required.
  - 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance wit the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) *This hazardous debris is subject to the alternativ treatment standards of 40 CFR 268.45°; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-Addendum and attach completed Addendum to this form.
  - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnanc subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardou waste. UHC's are NOT required to be identified.
  - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standar under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete an attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 26 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106 P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS I USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LD NOTIFICATION FORM.

SECTION I.	CHARAC	TERIST	TC WASTES DOUT THROUGH DU43.								
COLUMN 1:			COLUMN 2:			COLUMN 3:		COL	UMN	4:	
LINE ITEM			WASTE CODE / SUBCATEGORY			WASTEWATER/				CO	
SEE MANIFEST			り、気性			NON-WASTEWATER					
	[]	D001	Ignitables, except High TOC subcategory	(	1	WW [] Non-WW	1	2	3	4	6
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<del></del>			(Greater than or equal to 10% TOCH	Ċ		•					
•	f 1	D002		20	1	WW [] Non-WW	1	2	3	4	6
	ii	D003	C. 3	(D)					_	_	_
	• •	[-] -	Reactive Sulfide, per 261.23(a) (5)	با ۲۰	}	WW [] Non-WW	1	3	4	5	6
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		Ĺĺ	Explosive, per 261.23(a)(6); (7) & (8)	浸む	]	WW [ ] Non-WW	1	2	3	4	6
		ίì	Water Reactive, per 261.23(a)(2), (3) &, (4)	) "(	]	Non-WW only	1	2	3	4	6
		ίi	Other Reactive, per 261.23(a)(1)	(	]	WW [] Non-WW	1	2	3	4	6
		ii	Unexploded Ordnance, Emergency Response	1	]	WW [] Non-WW	1	3	4	5	6
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	į į	D005	Barium	1	]	WW [] Non-WW	1	2	3	4	6
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# SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009	[ ] WW [ ] Non-WW [ ] Non-WW only [ ] Non-WW only [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WW [ ] WM [ ] Non-WM [ ] WM [ ] Non-WM [ ] WM [ ] Non-WM [ ] WM [ ] Non-W	1 2 3 4 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2
COLUMN 1: LINE ITEM SEE MANIFEST  [ ] 1  [ ] 2  [ ] 3  [ ] 6  [ ] 6  [ ] 7  [ ] 8  [ ] 9	. Acetone [ ] 13. o-Dichlorobenz . Benzene [ ] 14. 2-Ethoxyethano . n-Butyl alcohol only) . Carbon disulfide [ ] 15. Ethyl acetate . Carbon tetrachloride [ ] 16. Ethyl benzene	Sene       26.   27.     28.       29.	COLUMN 4: HANDLING CODE  3 4 5 6  Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isome (sum of o-, m-, and p-xylene)

	ENVIRONMENTAL SERVICES, INC. RESTRICTION NOTIFICATION FORM LDR-1 Ma	anifest No.	
SECTION III.	CALIFORNIA LIST WASTES		
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE NON-WASTEWATER	
	Hazardous waste containing one or more of the follow California list constituents:	wing [ ] WW	6
	<ul> <li>ALL CALIFORNIA LIST CONSTITUENTS</li> <li>Liquids with nickel greater than or equal to 13</li> <li>Liquids with thallium greater than or equal to</li> <li>Liquids with PCB's &gt; or = 50 ppm</li> <li>Waste containing HOC's &gt; or = 1,000 mg/kg</li> </ul>		
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039	), K-, U-, AND P-CODES)	
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE NON-WASTEWATER	
···		_ [] WW [] Non-WW 3 4 5 6	
		_ [] WW [] Non-WW 3 4 5 6	
<del></del>		_ [] WW [] Non-WW 3 4 5 6	
<del></del>		[] WW [] Non-WW 3 4 5 6	
<del></del>		[] WW [] Non-WW 3 4 5 6	

# [ ] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

SECTION V. CONTACT NAME AND DATE

Print Name:	 	 Date:	

## KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technolog that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

^[ ] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

anı	fest	No	1

# SECTION I. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

- [1- Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.
- [ ] Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

#### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

#### SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [ ] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [ ] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

SECT	ON IV. LIST OF CONSTITUENTS - INCLUDE MANIFEST LI	NE ITEM		
34.	[ ] Acenaphthylene	72.	[ ]	l Chlordane (alpha and gamma
35.	[ ] Acenaphthene			isomers)
36.	[ ] Acetone	73.	. [ ]	p-Chloroaniline
37.	[ ] Acetonitrile	74.	_ :	•
38.	[ ] Acetophenone	.75.	— ; ;	
39.	[ ] 2-Acetylaminofluorene	76.		
40.	[] Acrolein	77.	_ :	· · · · · · · · · · · · · · · · · · ·
41.	[] Acrylamide (*)	78.		
42.	[] Acrylonitrile	79.	_ :	
251.	[] Aldicarb sulfone (*)	80.		• • • • • • • • • • • • • • • • • • • •
43.	[] Aldrin	81.	_ ;;	
44.	[] 4-Aminobiphenyl	82.		
45.	[] Aniline	83.		
46.	[] Anthracene	84.	: : :	<del>-</del>
47.	[] Antimony	85.	<b>-</b> []	• · · · · · · · · · · · · · · · · · · ·
48.	[] Aramite	86.	[]	
49.	[] Arsenic	87	_ [ ]	
50.	[] alpha-BHC	88.	_ [ ]	• • •
51.	[] beta-BHC	89.	_ []	
52.	{ ] delta-BHC	90.	[]	
53.	{ ] gamma-BHC	91	_ []	
252,	{ } Barban (*)	92.	[]	m-Cresol (difficult to
54.	[ ] Barıum			distinguish from p-Cresol)
253.	[] Bendiocarb (*)	93.	()	F ( 00
255.	[ ] Benomyl (*)			distinguish from o-Cresol)
55.	[] Benzene	262.	()	• • • • • • • • • • • • • • • • • • •
56.	[ ] Benz(a)anthracene	94.	[]	Cyanides (Total)
57.	[ ] Benzal chloride (*)	95.	()	Cyanıdes (Amenable)
58.	[ ] Benzo(b)fluoranthene (difficult	263	()	Cycloate (*)
	to distinguish from	96.	[]	Cyclohexanone
	Benzo(k)fluoranthene)	97.	[]	1,2-Dibromo-3-chloropropane
59.	[ ] Benzo(k)fluoranthene (difficult	98.	[]	1,2-Dibromoethane (Ethylene dibromid
	to distinguish from	99.	_ []	
	Benzo(b) fluoranthene)	100.	_ []	2,4-Dichlorophenoxyacetic acid (2,4-
60.	[ ] Benzo(q,h,1)perylene	101.	()	
61.	[ ] Benzo(a)pyrene	102.		· -
62.	[] Berylium	103.	_ ii	
63.	[ ] Bromodichloromethane	104.	ii	
64.	[ ] Bromomethane (Methyl bromide)	105.	_ ii	• • •
65.	[ ] 4-Bromophenyl phenyl ether	106.	i i	· -
66.	[] n-Butyl alcohol	107.	ii –	
256	[] Butylate (*)	108.	_ ii	
67.	[ ] Butyl benzyl phthalate	109.	_ ii	
68.	[ ] 2-sec-Butyl-4,6-dinitrophenol	110	_ ;;	
	(Dinoseb)	110.		
69.	[ ] Cadmium	111	_ ;	•
257	[] Cadmidm [] [] Carbaryl (*)	112.	_ []	
	<del></del>	113	_ []	•
		114.	[ ]	· ·
259.		115	_ []	
	[ ] Carbofuran phenol (*)	116.	_ []	
70.	[] Carbon disulfide	117.	_ []	•
71.	[] Carbon tetrachloride	118.	_ []	•
261.	[] Carbosulfan (*)	119.	_ []	• •
	me starts.	120.	_ []	cis-1,3-Dichloropropylene

[] trans-1,3-Dichloropropylene

122	[] Dieldrin	181	[ ] Methyl ethyl ketone
122.	- · · · · · · · · · · · · · · · · · · ·	102	· · · · · · · · · · · · · · · · · · ·
123.	[ ] Diethyl phthalate	182.	[ ] Methyl isobutyl ketone
124.	[ ] 2,4-Dimethyl phenol	183.	[ ] Methyl methacrylate
125.	[ ] Dimethyl phthalate	184.	[ ] Methyl methansulfonate
126	[ ] Di-n-butyl phthalate	185.	[ ] Methyl parathion
126.		203.	
127.	[ ] 1,4-Dinitrobenzene	274.	[] Metolcarb (*)
128	[ ] 4,6-Dinitro-o-cresol	275.	[ ] Mexacarbate (*)
129.	[ ] 2,4-Dinitrophenol	276.	[ ] Molinate (*)
		186	[] Naphthalene
130		186.	· ·
131	[ ] 2,6-Dinitrotoluene	187.	[ ] 2-Naphthylamine
132.	[ ] Di-n-octyl phthalate	188.	[ ] Nickel
122	[ ] p-Dimethylaminoazobenzene (*)	189.	[] o-Nitroaniline (*)
133.		105.	
134	[ ] Di-n-propylnitrosoamine	190	[ ] p-Nitroanılıne
135.	[ ] 1,4-Dioxane (*)	191.	[ ] Nitrobenzene
126	[ ] Diphenylamine (difficult to	192.	[] 5-Nitro-o-toluidine
136	• • •	103	* *
	distinguish from	193	[] o-Nitrophenol (*)
	diphenylnitrosamine)	194.	[ ] p-Nitrophenol
137	[ ] Diphenylnitrosamine (difficult to	195	[ ] N-Nitrosodiethylamine
	distinguish from diphenylamine)	196.	[ ] N-Nitrosodimethylamine
		100	
138	[ ] 1,2-Diphenylhydrazıne	197.	[ ] N-Nitroso-di-n-butylamine
139.	[ ] Disulfoton	198.	[ ] N-Nitrosomethylethylamıne
266	[ ] Dithiocarbamates (Total) (*)	199.	[] N-Nitrosomorpholine
266		200	[] N-Nitrosopiperidine
140		200.	
141	[ ] Endosulfan II	201	( ) N-Nitrosopyrrolidine
142.	[ ] Endosulfan sulfate	277	[ ] Oxamyl (*)
143	[ ] Endrin	202.	[ ] Parathion
143.		203	
144.	[ ] Endrin aldehyde	203.	[ ] Total PCBs (sum of all PCB isomers,
267.	[ } EPTC (*)		or all Arochlors)
145	[ ] Ethyl acetate	278	[ ] Pebulate (*)
145.	· · · · · · · · · · · · · · · · · ·	304	[] Pentachlorobenzene
146	[ ] Ethyl cyanide (propanenitrile)	204.	
147	[ ] Ethyl benzene	205	[ ] PeCDDs (All pentachlorodibenzo-
148.	[ ] Ethyl ether		p-dioxins)
140		206	[ ] PeCDFs (All pentachlorodibenzofurar
149		200.	<del>_</del>
150	[ ] Ethyl methacrylate	207.	<pre>[ ] Pentachloroethane (*)</pre>
151.	[ ] Ethylene oxide	208	[ ] Pentachloronitrobenzene
153	[] Famphur	209.	[ ] Pentachlorophenol
152.		310	[] Phenacetin
153	• • • • •	210.	
154.	[ ] Fluorene	211	[ ] Phenanthrene
155.	[ ] Fluoride	212	[ ] Phenol
360	[ ] Formetanate hydrochloride (*)	213.	[ ] Phorate
268		214	
156	[] Heptachlor	214.	[ ] Phthalic acid (*)
157.	[ ] Heptachlor epoxide	215.	[ ] Phthalic anhydride
150	[ ] Hexachlorobenzene	280.	[ ] Physostigmine (*)
158.		201	
159.		281.	[ ] Physostigmine salicylate (*)
160	[ ] Hexachlorocylopentadiene	282	[ ] Promecarb (*)
161.	[ ] HxCDDs (All hexachlorodibenzo-	216	[ ] Pronamide
	p-dioxins)	283.	[ ] Propham (*)
		204	<del>-</del>
162.	[ ] HxCDFs (All hexachlorodibenzo-	284	[] Propoxur (*)
	furans)	285	[ ] Prosulfocarb (*)
163.	[ ] Hexachloroethane	217.	[ ] Pyrene
		219	[ ] Pyridine
164.	[ ] Hexachloropropylene	218.	
165	[ ] Indeno (1,2,3-c,d)pyrene	219.	[] Safrole
270.	[ ] 3-Iodo-2-propynyl	220	[ ] Selenium
<del></del>	n-butylcarbamate (*)	221.	[] Silver
166		222	[] Silvex (2,4,5-TP)
166	[] Iodomethane	222.	
167	[ ] Isobutyl alcohol	223	[ ] Sulfide
168.	[ ] Isodrin	224.	[ ] 2,4,5-T (2,4,5-Trichlorophenoxyacet
169	[] Isosafrole	<del></del>	acid)
169	• •	225	
170	[ ] Kepone	225.	[] 1,2,4,5-Tetrachlorobenzene
171.	[] Lead	226	[ ] TCDDs (All tetrachlorodibenzo-
172.	[ ] MercuryNonwastewater from Retor	<u> </u>	p-dioxins)
172	[ ] MercuryAll others	227.	[ ] TCDFs (All tetrachlorodibenzofurans
173.		220	
174.	[ ] Methacrylonitrile	228.	[ ] 1,1,1,2-Tetrachloroethane
175.	[] Methanol	229	[ ] 1,1,2,2-Tetrachloroethane
176	[] Methapyrilene	230.	[ ] Tetrachloroethylene
176.		221	
272	[ ] Methiocarb (*)	231.	[ ] 2,3,4,6-Tetrachlorophenol
273.	[ ] Methomyl (*)	232	[ ] Thallium
177.	[ ] Methoxychlor	286.	[ ] Thiodicarb (*)
179	[ ] 3-Methylcholanthrene	287.	[] Thiophanate-methyl (*)
178.	[ ] 3-Methylenotalititelle	237	•
	[ ] 4,4-Methylene-bis(2-chloroaniline)	233.	[] Toluene
180.	Methylene chloride	234.	[ ] Toxaphene
	1~	289	[ ] Triallate (*)
	•	235.	[] Tribromomethane (Bromoform)

CLEAN HARBORS	ENVIRONM	ENTAL SERVICES, INC.			-ī ı
LAROTRIC DISPOSAL	RESTRICT	ION NOTIFICATION FORM LDR-1	ADDENDUM Manifes	st No.	
236.	_ (1	1,2,4-Trichlorobenzene	244	[ ]	1,1,2-Trichloro-1,2,2-trifluoroethane
237.	[ ()	1,1,1-Trichloroethane	290	[ ]	Triethylamine (*)
238	[ [ ]	1,1,2-Trichloroethane	245.	[ ]	tris-(2,3-Dibromopropyl)phosphate
239.	[ []	Trichloroethylene	246		Vanadium (*)
240.	[ ]	Trichloromonofluoromethane	291	[]	Vernolate (*)
241.	[ [ ]	2,4,5-Trichlorophenol	247.	[]	Vinyl chloride
242.		2 4,6-Trichlorophenol	248	[ ]	Xylenesmixed isomers (sum of o-,
243.	Ţ rj	1,2,3-Trichloropropane		-	m-, and p-xylene concentrations)
	_		249	[]	Zinc (*)

# KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in §268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in §268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]

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d.

FOR SHIPMENT OF HAZARDOUS SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 P.O. BOX 19276 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039 Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. Document No. WASTE MANIFEST 0 A A Illinois Manifest Document Number Location If Different 3. General Theory of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State IL 8494037 FEE PAID 414 Plaza Drive Generators II Suite 106 6499 Industrial Highway Westmont, IL 60559 Gary, IN 46406
24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 Westmont, C. Transporter's 5. Transporter 1 Company Name US EPA ID Number D. Transporter's Phone ( ) 4 3887 KOBB18 E Transporter's US EPA ID Number 7. Transporter 2 Company Name 8. F Transporter's Phone (1977) 9. Designated Facility Name and Site Address US EPA ID Number 10. G. Facility's JL 10 Number 10 13 11 6 0 0 0 0 5 Clean Harbors Services Inc H. Facility's Phone ( 11800 South Stony Island Ave
Chicago, II, 60617

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 646-6202 12. Containers Unit Total Type Quantity Wt/Vol HAZARDOUS WASTE SOLID, N.O.S. (METHYLENE CHLORIDE, N-BUTANOL), 9, NA3077, III CM The sales of EPA HW Number in things EPA HW Number  $D^{\circ}$ 

J. Additional Description for Materials Listed Above K Handling Codes for Wastes Listed Above In Item #14 11a CH144191B 🚈 F002, F003, F005, D006, D007 **建物学 网络加州州东** CUBIC YARDS

15. Special Handling Instructions and Additional Information

wo# NB198824

Year

ROLL OFF BOX NO. 744/2155

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Month Day Year 1021 GEOUP. 17. Transporter 1 Acknowledgement of Receipt of Materials Date rinted/Typed Name Month Day ANSPORTER 0/2/ 18. Transporter 2 Acknowledgement of Receipt of Materials Date Month Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space

Printed/Typed Name

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted

Date Signature Day

This Agency is authorized to require, pursuant to tilinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 16011 that this information be inhinited to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management center.

Mailfest No. IL 3194037

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WAST CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHÍBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER TH LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EP, WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended fo treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater tha or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) o. combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D00 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach complete Addendum to this form.
- 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which i intended for export and treatment/disposal at a facility located outside the United States. LDR treatmen standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported Note however that if the exported waste is subsequently returned for treatment/disposal in the United States all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance wit the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternativ treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's b; completing Sections III and IV of CHI Form LDR-Addendum and attach completed Addendum to this form.
- 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnanc subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardou waste. UHC's are NOT required to be identified.
- waste. UHC's are NOT required to be identified.

  6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standar under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete an attach the lab pack certification statement on CHI FORMILED BY. Note that in accordance with 40 CFR Part 26 Appendix IV, lab packs which contain waste codes DUDY, 2013 K003, K004, K005, K006, K062, K071, K100, K106 P010, P011, P012, P076, P078, U134, and U151 are not religible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A FISTED OF CHARACTERISTIC WASTE AND THE GENERATOR WANTS 1
USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LD
NOTIFICATION FORM.

			TC WASTES DOOL THROUGH DO43									
SECTION I.	CHARAC	TERIST	IC WASTES DOOL THROUGH DO43									
			COLUMN 2:									
COLUMN 1:		,			CO	:JUMN	3:	•	COL	umn	4:	
LINE ITEM			WASTE CODE / SUBCATEGORY DO CO		WAS	TEWA!	TER/	HAI	NDL	ING	CO	DE
SEE MANIFES	Ť		<u> </u>		NON-W	ASTE	Hater					
	[ ]	D001	Ignitables, except High TOC subcategory	[]	WW	[]	Non-WW	1	2	3	4	6
	i i	D001	High TOC Ignitable Liquids Subcategory	[]	Non-W	W on	ly	1A		3	6	
			(Greater than or equal to 10% TOC)				-					
-	[ ]	D002	Corrosives	[]	WW	[ ]	Non-WW	1	2	3	4	6
	ii	D003										
		[ ]	Reactive Sulfide, per 261.23(a)(5)	( )	WW	[ ]	Non-WW	1	3	4	5	6
		Ü	Reactive Cyanide, per 261.23(a)(5)	[ ]	WW	( )	Non-WW	1	3	4	5	6
\$		[]	Explosive, per 261.23(a)(6), (7) & (8)	[]	ww	[]	Non-WW	1	2	3	4	6
		Ĺ	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-W	W on	ly	1	2	3	4	6
		ίi	Other Reactive, per 261.23(a)(1)	[ ]	WW	[ ]	Non-WW	1	2	3	4	6
		ίi	Unexploded Ordnance, Emergency Response	[ ]	WW	Ü	Non-WW	1	3	4	5	6
	ſį	D004	Arsenic	( )	WW		Non-WW	1	2	3	4	6
	ií	D005	Barıum	[ ]	WW	( )	Non-WW	1	2	3	4	6
TI A-	Dat	D006						·~	_	_	-	-
		Dk	Cadmium	[]	WW	(N)	Non-WW e	$\langle \mathbf{Y} \rangle$	6	3	4	6
		[]	Cadmium Containing Batteries	[]	Non-W			172	روا	6	-	-
11	KI	D007	Chromium	( )			Non-ww	<i>X</i> ⊕	Ž)	3	4	6
	· 4 i	D008				~	_	X	()	_		-
	• • •	[].	Lead	[]	WW	[ ]	Non-WW	1	2	3	4	6
		i i	Lead Acid Bat eries	i i	Non-W			2	3	6	•	-
		. ,		٠.			- 1	_	-	•		

# SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	<u>BRG.GIZKI</u> GII	COLUMN 2: WASTE CODE / NAME			COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN HANDLING	
SEE PRINTEDI					NON WHOTEHREEK		
	[ ] D009 [ ] [ ] [ ]	Low Mercury, less than 260 mg/kg Mercury High Mercury Organic Subcategory 'High Mercury Inorganic Subcategory	l		WW [] Non-WW Non-WW only Non-WW only	1 2 3 2 3 4 2 3 4	4
	[] D010	Selenium		[ ]			4 6
	[ ] D011 [ ] D012	Silver Endrin		[]	WW [] Non-WW WW [] Non-WW	1 2 3 2 3 4	4 6 5 6
	[ ] D012	Lindane				2 3 4	5 6
	[] D014	Methoxychlor	_	ij	WW [] Non-WW	2 3 4	5 6
	[ ] D015	Toxaphene	[	[ ]	WW [] Non-WW	2 3 4	5 6
	[] D016	2,4-D		[ ]	WW [] Non-WW	2 3 4	5 6
	[ ] D017	2,4,5-TP (Silvex)	_	[ ]	WW [] Non-WW	2 3 4	5 6
	[ ] D018 [ ] D019	Benzene Carbon tetrachloride		[]	WW [] Non-WW	1 2 3	4 6
	[ ] D019 [ ] D020	Chlordane			WW [] Non-WW	1 2 3	4 6
	[] D021	Chlorobenzene	_	ij	WW [] Non-WW	1 2 3	4 6
	[] D022	Chloroform	{	[ ]	WW [ ] Non-WW	1 2 3	4 6
	[] D023	o-Cresol			WW [] Non-WW	1 2 3	4 6
	[] D024	m-Cresol	_	[ ]	WW [] Non-WW	1 2 3	4 6
	[ ] D025	p-Cresol Cresol	(		WW [] Non-WW	1 2 3	4 6
	[ ] D026 [ ] D027	1,4-Dichlorobenzene	-	]	WW [] Non-WW	1 2 3	4 6
	( ) D028	1.2-Dichloroethane		í	WW [] Non-WW	1 2 3	4 6
	[] D029	1,1-Dichloroethylene	E	3	WW [] Non-WW	1 2 3	4 6
	[] D030	2,4-Dinitrotoluene	(	3	WW [] Non-WW	1 2 3	4 6
	[ ] D031	Heptachlor (and its epoxide)	[	]	WW [] Non-WW	1 2 3	4 6
<del></del>	[ ] D032 [ ] D033	Hexachlorobenzene Hexachlorobutadiene	l r	]	WW [] Non-WW	1 2 3 1 2 3	4 6 4 6
		Hexachloroethane	ľ	i	WW [] Non-WW	1 2 3	4 6
	[] D035	Methyl ethyl ketone	ì	-	WW [] Non-WW		4 6
	[] D036	Nitrobenzene	[	]	WW [ ] Non-WW	1 2 3	4 6
	[ ] D037	Pentachlorophenol	ĺ	]	WW [] Non-WW		4 6
<del></del>	[ ] D038	Pyridine		-	WW [] Non-WW	•	4 6
	[ ] D039	Tetrachloroethylene		-	WW [] Non-WW		4 6 4 6
	[ ] D040 [ ] D041	Trichloroethylene 2,4,5-Trichlorophenol		-	WW [] Non-WW		4 6
	[ ] D042	2,4,6-Trichlorophenol		-	WW [] Non-WW		4 6
		Vinyl Chloride	[	)	WW [ ] Non-WW	1 2 3	4 6
SECTION II.	SPENT SOLVE	VT WASTES F001 THROUGH F005					
COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / CONSTITUENTS			COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN HANDLING	
. ( /	. /						_
1111	F001	[ F002 [ F003 [ ] F004 [ ]	F005 [	}	WW Non-WW	3 4 (5	<u>)</u> 6
	1. ALL F001	<del></del>		_		25. Pyridine	ookhul
	2. Acetone 3. Benzene	[ ] 13. o-Dichloro [ ] 14. 2-Ethoxyet				26. Tetrachlor 27. Toluene	oernyiene
Here Inter	4. n-Butyl a	<del></del> : :	indiror ,			28. 1,1,1-Tric	hloro-
<b>一</b> 行	5. Carbon di		ate			ethane	
		trachloride [ ] 16. Ethyl benz			{ ] :	29. 1,1,2-Tric	hloro-
	7. Chlorober					ethane	* h 1
	B. o-Cresol	(difficult to [] 18. Isobutyl a	TCOUOT			30. Trichloroe 31. 1,1,2-Tric	<del>-</del>
t )	distinguia distinguia	<del></del>	chlorid	le	1 ,	1,2,2-trifl	
	p-cresol)	[ ] 21. Methyl eth			[]	32. Trichlorom	
[]:	10. p-Cresol	(difficult to [ ] 22. Methyl iso	butyl k		one	methane	
	distinguis			20.0		33. Xylene - m:	
[]	m-cresol)	mixed isomers [ ] 24. 2-Nitroproposition only)	pane (F	.00	5	(sum of o-, p-xylene)	m-, and
	(sum of o					£ 2,	
	p-cresol)						

CLEAN	HARBORS	ENVIRONMENTA	L SERVICES, 1	INC.	
LAND	DISPOSAL	RESTRICTION	NOTIFICATION	FORM	LDR-1

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1 : LINE ITEM

SEE MANIFEST

RESTRICTION NOTIFICATION FORM LDR-1	Manifest No.
CALIFORNIA LIST WASTES	
COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE NON-WASTEWATER
Hazardous waste containing one or more of the foll California List constituents:	lowing [] WW [] Non-WW 1 2 3 4 5 6
[ ] ALL CALIFORNIA LIST CONSTITUENTS	

[ ]	Liquids with thallium greater than or equal to 130 mg/l
[ ]	Liquids with PCB's > or = 50 ppm
11	Waste containing HOC's > or = 1,000 mg/kg

## SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

[ ] Liquids with pickel greater than or equal to 134 mg/l

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE NON-WASTEWATER	3
		[] WW [] Non-WW 3 4 5 6	
<del></del>		[] WW [] Non-WW 3 4 5 6	
		[] WW [] Non-WW 3 4 5 6	
<del></del>		[ ] WW [ ] Non-WW 3 4 5 6	
<del></del> .		[] WW [] Non-WW 3 4 5 6	

1	CHECK HERE IF	ADDITIONAL	LISTED WASTE	CODES ARE	PRESENT.	COMPLETE AND	ATTACH LDE	2-1 CONTINUATION SHEET.

SECTION V. CONTACT NAME AND DATE

Print Name: THOMAS RYSILWILZ

AGENT FOR 6500 INDUSTRIAL

HIGHWAY GROVP

10-21-94 Date:

# KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkalıne chlorınation, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

^[ ] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

		_		_		
		- 1		,		
			l .	1		
Manıfest	No.		•			
		_	<del></del>			 

# SECTION I. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

( ) Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

#### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

# SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

		-	,			
SECT	ION IV. LIST OF	CONSTÎTUENTS - INCLUDE MANIFEST LI	NE ITEN	4		
34.	[]		72.		[]	Chlordane (alpha and gamma
35.	[]	Acenaphthene	115			isomers)
36.	[ ]	Acetone	73.		[ ]	p-Chloroaniline
37.	[ ]		74.		Ĺĵ	=
38.	i i				· i i	
39.		2-Acetylaminofluorene	76.		ii	
40.	i i		77.		ii	
41.			78.		ii	
42.	i i	-	79.		( )	
251.	i i	<del>-</del>	80.		ii	<b>-</b> ·
43.	ì i	Aldrin	81.		į	
44.		4-Aminobiphenyl	82.		ij	bis(2-Chloroisopropyl)ether
45.	i i	Aniline	83.		ij	
46.	i i	Anthracene	84.		ij	
47.	ii	Antimony	85.		ίĵ	Chloromethane (Methyl Chloride)
48.	i i	Aramite	86.		į	2-Chloronaphthalene
49.	ii	Arsenic	87.		[]	
50.	ii	alpha-BHC	88.		ij	3-Chloropropylene
51.	::	beta-BHC	89.			Chromium (Total)
52.		delta-BHC	90.		[]	Chrysene
53.	—— ii	gamma-BHC	91.		[]	<u> </u>
252.	<del></del> ::	Barban (*)	92.		[]	m-Cresol (difficult to
54.	;;	Barium	32.	<del></del>	( )	distinguish from p-Cresol)
253.		Bendiocarb (*)			r 1	
		_ /S	93.		[]	•
255.	[]	<u> </u>				distinguish from o-Cresol)
55.	[]	Benzene	262.		[]	
56.	[]	Benz(a)anthracene Benzal chloride (*)	94. 95.		[]	
57. 58.		• •	263.		[]	Cyanides (Amenable)
50.		to distinguish from	263. 96.		[]	Cycloate (*)
		Benzo(k) fluoranthene)	96. 97.		[]	Cyclohexanone
E0.	[]			<del></del>	[]	1,2-Dibromo-3-chloropropane
59.			98.		[]	1,2-Dibromoethane (Ethylene dibromide)
		to distinguish from	99.		[]	Dibromomethane
		Benzo(b) fluoranthene)	100.		[ ]	2,4-Dichlorophenoxyacetic acid (2,4-D)
60.	[]		101.		[]	o,p'-DDD
61.	[]	Benzo(a)pyrene	102.		[]	p,p'-DDD
62.	[]	Berylium	103.		[]	o,p'-DDE
63.		Bromodichloromethane			[ ]	p,p'-DDE
64.	[]	Bromomethane (Methyl bromide)	105.		[ ]	o,p'-DDT
65.	[]	4-Bromophenyl phenyl ether	106.		[]	p,p'-DDT
66.		n-Butyl alcohol	107.		[ ]	Dibenz(a,h)anthracene
256.	[]	Butylate (*)	108.			Dibenzo(a,e)pyrene
67.	[]	Butyl benzyl phthalate	109.		[]	m-Dichlorobenzene
68	[]	2-sec-Butyl-4,6-dinitrophenol	110.		[]	o-Dichlorobenzene
		(Dinoseb)	111.		[]	<u> </u>
69	[]	Cadmium	112.		[]	Dichlorodifluoromethane
257.	<u> </u>	Carbaryl (*)	113.		[]	1,1-Dichloroethane
258.		Carbendazim (*)	114.		[ ]	1,2-Dichloroethane
259.	[ ]	Carbofuran (*)	115.		[ ]	1,1-Dichloroethylene
260.	[]	Carbofuran phenol (*)	116.		[]	trans-1,2-Dichloroethylene
70.	[]	Carbon disulfide	117.		[ ]	
71.	[]	Carbon tetrachloride	118.		[]	
261.	[]	Carbosulfan (*)	119.		[]	• •
			120.		[]	cis-1,3-Dichloropropylene
			101			******* 1 3 Pi-bl

[] trans-1,3-Dichloropropylene

122.						
		[ ]	Dieldrin	181	[]	Methyl ethyl ketone
123.		[ ]	Diethyl phthalate	182.	[ ]	Methyl isobutyl ketone
124.		[ ]	2,4-Dimethyl phenol	183.	[ ]	Methyl methacrylate
125.		[ ]		184.	[ ]	<u> </u>
126		-	Di-n-butyl phthalate	185.	ii	
127			1,4-Dinitrobenzene	274.	ίi	
120			4,6-Dinitro-o-cresol	275	ίí	
120.				275.		
129.		[ ]		276.	[ ]	
130.		[ ]		186.	[ ]	Naphthalene
131.		[ ]	2,6-Dinitrotoluene	187.	[ ]	2-Naphthylamine
132.		[ ]	Di-n-octyl phthalate	188	[]	Nickel
133.		[ ]	p-Dimethylaminoazobenzene (*)	189	[]	o-Nitroaniline (*)
134.		[ ]	· ·	190.	[]	p-Nitroaniline
135		ii		191.	ij	Nitrobenzene
126	•	ij		192	ii	5-Nitro-o-toluidine
130.			distinguish from	192.	-	
				193.	[]	o-Nitrophenol (*)
			diphenylnitrosamine)	194.	[]	p-Nitrophenol
137.		[ ]	÷ -	195.	( )	N-Nitrosodiethylamine
			distinguish from diphenylamine)	196.	[ ]	N-Nitrosodimethylamine
138.		[]	1,2-Diphenylhydrazıne	197	[]	N-Nitroso-di-n-butylamine
		[]	Disulfoton	198	[]	N-Nitrosomethylethylamine
		[ ]	Dithiocarbamates (Total) (*)	199.	[]	N-Nitrosomorpholine
140		ίi		200.	Ü	
141		ii		201.	ii	N-Nitrosopyrrolidine
141.				277		
142.		[ ]		277.	[]	Oxamyl (*)
143.		[ ]		202.	[]	
144.		[]	<del>-</del>	203.	( )	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
267.		( )	EPTC (*)			or all Arochlors)
145,		[ ]	Ethyl acetate	278	[]	Pebulate (*)
146.		[]	Ethyl cyanide (propanenitrile)	204.	[]	Pentachlorobenzene
147		ii	Ethyl benzene	205.	[]	PeCDDs (All pentachlorodibenzo-
140		Ü	-			p-dioxins)
140,			-	206	f 1	PeCDFs (All pentachlorodibenzofurans)
149.		[]		206.		
150.		[ ]	Ethyl methacrylate	207.	[]	Pentachloroethane (*)
151.		[ ]	Ethylene oxide	208.	( )	
152.		[]	Famphur	209.	[]	Pentachlorophenol
153.		[ ]	Fluoranthene	210	[ ]	Phenacetin
154.		[]	Fluorene	211.	[]	Phenanthrene
155.		ίi	Fluoride	212.	Ü	Phenol
268		ii	Formetanate hydrochloride (*)	213.	ίi	Phorate
156		ii	Heptachlor	214.	ίí	Phthalic acid (*)
150.			<del>-</del>	215	[]	Phthalic anhydride
157.		[]	Heptachlor epoxide	215.		
158.		[]	Hexachlorobenzene	280.	[]	Physostigmine (*)
159.		[]	Hexachlorobutadiene	281	[]	Physostigmine salicylate (*)
160.		. ,				
161.		[]	Hexachlorocylopentadiene	282	ίi	Promecarb (*)
			Hexachlorocylopentadiene HxCDDs (All hexachlorodibenzo-	282. 216.		
		[ }		216	[ ]	Promecarb (*)
162.		[]	HxCDDs (All hexachlorodibenzo- p-dioxins)	216 283	[ ]	Promecarb (*) Pronamide Propham (*)
162.		[]	HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo-	216 283 284	[]	Promecarb (*) Pronamide Propham (*) Propoxur (*)
		[]	HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans)	216. 283. 284. 285.	[ ] [ ] [ ] [ ]	Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*)
163.		[]	HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane	216. 283. 284. 285.	[ ] [ ] [ ] [ ]	Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene
163. 164.		[]	HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene	216. 283. 284. 285. 217.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine
163. 164. 165.		[]	HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene	216. 283. 284. 285. 217. 218. 219.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole
163. 164. 165.		[]	HxCDDs (All hexachlorodibenzo-p-dioxins) HxCDFs (All hexachlorodibenzo-furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl	216. 283. 284. 285. 217. 218. 219. 220.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium
163. 164. 165. 270.		[]	HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene	216. 283. 284. 285. 217. 218. 219. 220.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole
163. 164. 165. 270.		[]	HxCDDs (All hexachlorodibenzo-p-dioxins) HxCDFs (All hexachlorodibenzo-furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl	216. 283. 284. 285. 217. 218. 219. 220.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium
163. 164. 165. 270.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*)	216. 283. 284. 285. 217. 218. 219. 220.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver
163. 164. 165. 270.			HxCDDs (All hexachlorodibenzo-p-dioxins) HxCDFs (All hexachlorodibenzo-furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP)
163. 164. 165. 270. 166. 167.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin	216. 283. 284. 285. 217. 218. 219. 220.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic
163. 164. 165. 270. 166. 167. 168.			HxCDDs (All hexachlorodibenzo-p-dioxins) HxCDFs (All hexachlorodibenzo-furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)
163. 164. 165. 270. 166. 167. 168. 169.			HxCDDs (All hexachlorodibenzo-p-dioxins) HxCDFs (All hexachlorodibenzo-furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene
163. 164. 165. 270. 166. 167. 168. 169. 170.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-
163. 164. 165. 270. 166. 167. 168. 169. 170.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retore	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins)
163. 164. 165. 270. 166. 167. 168. 169. 170. 171. 172.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans)
163. 164. 165. 270. 166. 167. 168. 169. 170. 171. 172. 173.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacrylonitrile	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,1,2-Tetrachloroethane
163. 164. 165. 270. 166. 167. 168. 169. 170. 171. 173. 174.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane
163. 164. 165. 270. 166. 167. 168. 169. 170. 171. 173. 174.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacrylonitrile	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,1,2-Tetrachloroethane
163. 164. 165. 270. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methanol Methapyrilene	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo- p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene
163. 164. 165. 270. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 272.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacol Methapyrilene Methiocarb (*)	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.  227. 228. 229. 230. 231.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol
163. 164. 165. 270. 166. 167. 168. 169. 171. 172. 173. 174. 175. 176. 272. 273.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methanol Methapyrilene Methiocarb (*) Methomyl (*)	216		Promecarb (*) Pronamide Propham (*) Propoxur (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo- p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Thallium
163. 164. 165. 270. 166. 167. 168. 169. 171. 172. 173. 174. 175. 176. 272. 273.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacrylonitrile Methanol Methapyrilene Methocarb (*) Methomyl (*) Methoxychlor	216		Promecarb (*) Pronamide Propham (*) Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Thallium Thiodicarb (*)
163. 164. 165. 270. 166. 167. 168. 169. 171. 172. 173. 174. 175. 176. 272. 273. 177.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacylonitrile Methanol Methapyrilene Methomyl (*) Methomyl (*) Methoxychlor 3-Methylcholanthrene	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.  227. 228. 229. 230. 231. 232. 286.		Promecarb (*) Pronamide Propham (*) Propham (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Thallium Thiodicarb (*) Thiophanate-methyl (*)
163. 164. 165. 270. 166. 167. 168. 170. 171. 172. 173. 174. 175. 176. 272. 273. 177. 178.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacylonitrile Methanol Methapyrilene Methomyl (*) Methoxychlor 3-Methylcholanthrene 4,4-Methylene-bis(2-chloroaniline)	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.  227. 228. 229. 230. 231. 232. 286. 287. 233.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo- p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Thallium Thiodicarb (*) Thiophanate-methyl (*) Toluene
163. 164. 165. 270. 166. 167. 168. 170. 171. 172. 173. 174. 175. 176. 272. 273. 177. 178.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacylonitrile Methanol Methapyrilene Methomyl (*) Methoxychlor 3-Methylcholanthrene 4,4-Methylene-bis(2-chloroaniline)	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.  227. 228. 229. 230. 231. 232. 286. 287. 233. 234.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo- p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Thallium Thiodicarb (*) Thiophanate-methyl (*) Toluene Toxaphene
163. 164. 165. 270. 166. 167. 168. 170. 171. 172. 173. 174. 175. 176. 272. 273. 177. 178.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacylonitrile Methanol Methapyrilene Methomyl (*) Methoxychlor 3-Methylcholanthrene 4,4-Methylene-bis(2-chloroaniline)	216		Promecarb (*) Pronamide Propham (*) Propoxur (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo- p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Thallium Thiodicarb (*) Thiophanate-methyl (*) Toluene Toxaphene Triallate (*)
163. 164. 165. 270. 166. 167. 168. 170. 171. 172. 173. 174. 175. 176. 272. 273. 177. 178.			HxCDDs (All hexachlorodibenzo- p-dioxins) HxCDFs (All hexachlorodibenzo- furans) Hexachloroethane Hexachloropropylene Indeno (1,2,3-c,d)pyrene 3-Iodo-2-propynyl n-butylcarbamate (*) Iodomethane Isobutyl alcohol Isodrin Isosafrole Kepone Lead MercuryNonwastewater from Retort MercuryAll others Methacylonitrile Methanol Methapyrilene Methomyl (*) Methoxychlor 3-Methylcholanthrene 4,4-Methylene-bis(2-chloroaniline)	216. 283. 284. 285. 217. 218. 219. 220. 221. 222. 223. 224.  225. 226.  227. 228. 229. 230. 231. 232. 286. 287. 233. 234.		Promecarb (*) Pronamide Propham (*) Propoxur (*) Propoxur (*) Prosulfocarb (*) Pyrene Pyridine Safrole Selenium Silver Silvex (2,4,5-TP) Sulfide 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) 1,2,4,5-Tetrachlorobenzene TCDDs (All tetrachlorodibenzo- p-dioxins) TCDFs (All tetrachlorodibenzofurans) 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Thallium Thiodicarb (*) Thiophanate-methyl (*) Toluene Toxaphene

CLEAN HA	RBORS	ENVIRONN	MENTAL SERVICES, INC.			
LAND DIS	POSAL	RESTRICT	TION NOTIFICATION FORM LDR-1	ADDENDUM Manife	est No.	
236		_ []	1,2,4-Trichlorobenzene	244	_ ()	1,1,2-Trichloro-1,2,2-trifluoroethane
237.		_ []	1,1,1-Trichloroethane	290.	_ [ ]	Triethylamine (*)
238.		[ ]	1,1,2-Trichloroethane	245.	_ ( )	tris-(2,3-Dibromopropyl)phosphate
239.	-	_ []	Trichloroethylene	246	_ []	Vanadium (*)
240.		_ ( ]	Trichloromonofluoromethane	291.		Vernolate (*)
241.		[ ]	2,4,5-Trichlorophenol	247.	[ ]	Vinyl chloride
242.		[ ]	2,4,6-Trichlorophenol	248.	[ ]	Xylenesmixed isomers (sum of o-,
243.		[ ]	1,2,3-Trichloropropane		_	m-, and p-xylene concentrations)
		<del></del>		249.	_ ()	Zinc (*)

## KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in §268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in §268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in §268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]

State Form LPC 62 8/81 IL532-0610

LEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved OMB No. 2050-0039 1. Generator's US EPA ID No. Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. 2 Page 1 **UNIFORM HAZARDOUS** WASTE MANIFEST: IND040888992 0003 3. candador Industribada de la Plaza Drive A Illinois Manifest Document Number 12 8494039 FEE PAID. Location If Different Suite 106 6499 Industrial Highway Gary, IN 46406

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800 -645 - 8265

5. Transporter 1 Company Name B. Generator's IL ID Number i C Transporter's ID Number US EPA ID Number 5. Transporter 1 Company Name 9LD067138891 ROBBIE D. WOODS D. Transporter's Phone (205) 744-8444 E Transporters
ID Number 7. Transporter 2 Company Name US EPA ID Number R F. Transporter's Phone ( 9. Designated Facility Name and Site Address **US EPA ID Number** 10. G Facility's IL 0 3 1 6 0 0 0 0 5 1 Clean Harbors Services Inc 11800 South Stony Island Ave Chicago, IL 60617 H. Facility's Phone (773) 646-6202 ILD 0 0 0 6 0 8 4 7 1 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Unit Waste No. Type Quantity Wt/Vol PEPA HW Number a. HAZARDOUS WASTE SOLID, N.O.S. (METHYLENE CHLORIDE, E N-BUTANOL), 9, NA3077, III N 0.0.1 Cm 1,60,0 E EPA HW Number b. R 21.53 m Ţ ٥ C. R :;- EPA HW. Number, d. K Handling Codes for Wastes Listed Above in Item #14 15. Special Handling Instructions and Additional Information wo# NB198824 VACUUM BOX NO. IV 2502 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name 16607 FOR 6500 Month Day Year IND. HEWYEROUP HOMAS RYSIBUICZ 12119 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Signati ), Nenam 5/M MY 10 Z/ 18. Transporter 2 Acknowledgement of Receipt of Materials Date Month Day Printed/Typed Name Year Signature B-9180019999 19. Discrepancy Indication Space A 20. Facility Owner or Operator: Certification of receipt of I azardous materials covered by this manifest except as noted in item 19. Date Month Day Printed/Typed Name Signature Year Section 1004 and 1021, that this information be submitted it the Agency Failure to provide 100 per day of violation. Falsification of this information may result in a fine up to \$50,000 Agency is authorized to require, pursuant to illinois Revised Statute 1989, Chapter 114-177, Section Information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KLY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
  - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
  - 1A The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
  - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
  - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment, disposal in compliance with the alternate debris treatment technologies of 40 CTR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) *This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45°; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
  - 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standar under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendi: IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDF NOTIFICATION FORM. S m

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SECTION I.	CHARAC	TERIST	IC WASTES DOOL THROUGH DOA'S										
COLUMN 1:					COLUMN 3:				COLUM			14:	
LINE ITEM	WASTE CODE / SUBCATERON				WASTEWATER/			HANDLING			CODE		
SEE MANIFEST			回台 ゴ			NON-WAS	TE	WATER					
			<i>ν</i> ( )										
	[ ]	D001	Ignitables, except High TOC subsectegory	(	1	WW [	1	Non-WW	1	2	3	4	6
	ii	D001	High TOC Ignitable Liquids Subcategory	Ī	1	Non-WW	on.	lv	1A	_	ī	6	•
	• •		(Greater than or equal to Im 700)	•	•			-4			•	٠	
•	r 1	D002		1	1	WW [	1	Non-WW	1	2	2	A	6
	ii	D003		•	-	•	•		-	-	•	•	٠
	٠.	11	Reactive Sulfide, per 44.23(a)(5)	ſ	3	WW (	1	Non-WW	7	3	A	5	6
		7 7	Reactive Cyanide, per 251.25(al(s)	ì	í	WW I	í	Non-WW	1	3	7	-	_
		ří	Explosive, per 261.23(a)(6), (7) & (8)	í	í	WW (	• 1	Non-WW	1	3	3	2	-
		7 7	Water Reactive, per 261.23(a)(2), (3) & (4)	í	-	Non-ww	•		1	2	3	4	6
		( )	Other Reactive, per 261.23(a)(1)	'n	í			Non-WW	•	2	,	7	0
		(1)	Unexploded Ordnance, Emergency Response	'n	1	WW [	: ;	Non-WW	1	2	3	9	٥
	. 1	D004	Arsenic	,	i		· 1	Non-WW	•	3	4	5	0
	( )		Barium	- 1	•	• • • • • • • • • • • • • • • • • • • •		Non-WW		2	3	4	0
11/		_D005	Barrum	·	ı	<i>""</i> (		NOIL-WH	, r	2	3	4	6
	-120	D006	G-d-11-	,	,	ww (	· 1-	Non-ww	ヘサ	(2)	١.		_
		(N)	Cadmium	ı,	-	-	•	_	<b>∀</b>	(2/	, 3	4	6
111		[ ]	Cadmium Containing Batteries	ŀ	_	Non-WW		•	7	X	6		_
	) I	D007	Chromium	ι	J	MM [	×	Non-WW	<b>3</b> (1)	(Z)	3	4	6
	(1)	D008				!	′.			ب			
		l l	Lead	l	į	WW (	. 1	Non-WW	1	2	3	4	6
		[]	Lead Acid Batteries	ι	ł	Non-WW	OD.	C.Y	2	3	6		

## SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chloroform [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D033 Hexachlorobenzene [] D034 Hexachlorobenzene [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachloroethylene [] D038 Pyridine [] D039 Tetrachloroethylene [] D039 Tetrachloroethylene [] D039 Tetrachloroethylene [] D039 Tetrachloroethylene [] D039 Tetrachloroethylene	[ ] WW [ ] NON-WW [ ] NON-WW ONLY [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW [ ] WW [ ] NON-WW	1 2 3 4 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 3 4 6 6 1 2 2 3 4 6 6 1 2 2 3 4 6 6 1 2 2 3 4 6 6 1 2 2 3
	[ ] D041 2,4,5-Trichlorophenol [ ] D042 2,4,6-Trichlorophenol [ ] D043 Vinyl Chloride	[ ] WW [ ] Non-WW [ ] WW [ ] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES FOO1 THROUGH FOO5  COLUMN 2: WASTE CODE / CONSTITUENTS  FOO1 [ FOO2 [ FOO3 [ ] FOO4 [ FOO9	COLUMN 3.  WASTEWATER/ NON-WASTEWATER  [] WW [Mon-ww	COLUMN 4: HANDLING CODE  3 4 5 6
	1. ALL F001-F005 2. Acetone 3. Benzene 4. n-Butyl alcohol 5. Carbon disulfide 6. Carbon tetrachloride 7. Chlorobenzene 8. o-Cresol 9. m-Cresol (difficult to distinguish from p-cresol) 10. p-Cresol (difficult to distinguish from m-cresol) 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)  12. Cyclohexanone 1	Zene	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isome (sum of o-, m-, and p-xylene)

CLEAN	HARBORS	<b>ENVIRONMENTAL</b>	SERVICES,	INC.	
LAND	DISPOSAL	RESTRICTION N	NOTIFICATION	FORM	LDR-1

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SECTION III.	CALIFORNIA LIST WASTES									
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W.	COLUMN ASTEWA -WASTE	TER/	CC H <b>AN</b> E		IN 4 IG C		
	Hazardous waste containing one or more of the following California List constituents:	g (	] WW	[ ]	Non-WW	1 2	3	4	5 6	
	<pre>[ ] ALL CALIFORNIA LIST CONSTITUENTS [ ] Liquids with nickel greater than or equal to 134 t [ ] Liquids with thallium greater than or equal to 136 [ ] Liquids with PCB's &gt; or = 50 ppm [ ] Waste containing HOC's &gt; or = 1,000 mg/kg</pre>		1							
SECTION IV.	OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, F	K-, U	- , AN	D P-CO	DES)					
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	COLUMN ASTEWA -WASTE	TER/	CO HAND		IN 4 IG C		
		ι:	WW	[ ]	Non-WW	3	4	5	6	
		ŧ.	ww	[ ]	Non-WW	3	4	5	6	
		f :	WW	[]	Non-WW	3	4	5	6	
		[ ]	ww	[ ]	Non-WW	3	4	5	6	
		[ ]	ww	£ 3	Non-WW	3	4	5	6	
[ ] CHECK HE	RE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLET RE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESEN II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETE	T.	I DENT	IFY FO	39 CONST	TITUENTS			MPLE1	ſING
SECTION V. CO	NTACT NAME AND DATE									
Print Name:	THOMAS RYSHEWILZ	Da	te: _		10-2	1-99				
	THOMAS RYSIGNICT AGGOT FOR 6500 INDUSTRIAL HIGHWAY GROUP									
	HIGHWAY GROUP									

### KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

Manıfest No.	TI
	7

#### SECTION I. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

- [ 1- Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.
- [ ] Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

#### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

#### SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [ ] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

SECTION IV.	LIST OF CONSTITUENTS - INCLUDE MANIFEST LI	NE ITEM	
34	[ ] Acenaphthylene	72.	[ ] Chlordane (alpha and gamma
35.	[ ] Acenaphthene		isomers)
36.	[ ] Acetone	73.	[ ] p-Chloroaniline
37.	[ ] Acetonitrile	74.	[ ] Chlorobenzene
38.	[ ] Acetophenone	75.	[ ] Chlorobenzilate
39.	[ ] 2-Acetylaminofluorene	76.	[ ] 2-Chloro-1,3-butadiene
40.	[ ] Acrolein	77.	[ ] Chlorodibromomethane
41.	[ ] Acrylamide (*)	78.	[ ] Chloroethane
42.	[ ] Acrylonitrile	79.	[ ] bis(2-Chloroethoxy)methane
251.		80.	[] bis(2-Chloroethyl)ether
43.	[] Aldrin	61.	[] Chloroform
44	[ ] 4-Aminobiphenyl	82.	[ ] bis(2-Chloroisopropyl)ether
45.	[] Aniline	83.	[] p-Chloro-m-cresol
46.	[ ] Anthracene	84.	[ ] 2-Chloroethyl vinyl ether (*)
47.		85.	[ ] Chloromethane (Methyl Chloride)
48.	[] Aramite	86.	[] 2-Chloronaphthalene
49.	[] Arsenic	87.	[] 2-Chlorophenol
50.		88.	[] 3-Chloropropylene
51.	[] beta-BHC	89.	[] Chromium (Total)
52.	[] delta-BHC	90.	[] Chrysene
63	- I camma - BUC	91.	[] o-Cresol
252.	[] Barban (*)	92 ::	[] m-Cresol (difficult to
54.	[] Barium		distinguish from p-Cresol)
	<del>-</del>	93.	[] p-Cresol (difficult to
	<del>-</del> :: - , ,,,		distinguish from o-Cresol)
255. 55.	Benzene	262.	[] m-Cumenyl methylcarbamate (*)
	<del></del>		[] Cyanides (Total)
56. 57.	{ } Benzal chloride (*)	94. 95.	[ ] Cyanides (Iocal) [ ] Cyanides (Amenable)
58.	[ ] Benzo(b) fluoranthene (difficult	263.	[] Cycloate (*)
30.	to distinguish from	96.	[] Cyclohexanone
	Benzo(k) fluoranthene)	97.	[] 1,2-Dibromo-3-chloropropane
60	[ ] Benzo(k)fluoranthene (difficult		• •
59.	to distinguish from	98. 99.	[ ] 1,2-Dibromoethane (Ethylene dibromide [ ] Dibromomethane
	Benzo(b) fluoranthene)		- ·
		100.	[] 2,4-Dichlorophenoxyacetic acid (2,4-)
60	[] Benzo(g,h,1)perylene [] Benzo(a)pyrene	101.	[] o,p'-DDD
61	<del></del>	102.	[ ] p,p'-DDD
62.	<del></del>	103.	( ) o,p'-DDE
63.	[] Bromodichloromethane [] Bromomethane (Methyl bromide)	104.	[] p,p'-DDE
64		105.	( ) o,p'-DDT
65.	<pre>[ ] 4-Bromophenyl phenyl ether [ ] n-Butyl alcohol</pre>	106.	[ ] p,p'-DDT [ ] Dibenz(a,h)anthracene
66	= (i) possilista (4)	107.	· · · · · · · · · · · · · · · · · ·
256.	{ } Butylate (*) { } Butyl benzyl phthalate		<pre>[ ] Dibenzo(a,e)pyrene [ ] m-Dichlorobenzene</pre>
67.	<del>_</del>	109.	
68.	[] 2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	110.	• • • • • • • • • • • • • • • • • • • •
	( ) Codmium	111.	[] p-Dichlorobenzene
69.	[] Cadmium	112.	[] Dichlorodifluoromethane
257	[] Carbaryl (*)	113.	[] 1,1-Dichloroethane
258	[ ] Carbefuran (*)	114.	[] 1,2-Dichloroethane
259	[] Carbofuran (*) [] Carbofuran phenol (*)	115.	[] 1,1-Dichloroethylene
260		116.	[] trans-1,2-Dichloroethylene
70		117.	[] 2,4-Dichlorophenol
71.		118.	[ ] 2,6-Dichlorophenol [ ] 1,2-Dichloropropane
261		119.	[] cis-1,3-Dichloropropylene
		120.	
		121.	[ ] trans-1,3-Dichloropropylene

122.			Diethyl phthalato	101.		1 1	Methyl echyl ketone
123.		( )		182.		[]	Methyl isobutyl ketone
124.		[ ]		183.		[]	Methyl methacrylate
125.		[ ]	Dimethyl phthalate	184.		[]	Methyl methansulfonate
126.		[]	Di-n-butyl phthalate	185.		[]	Methyl parathion
127.		1 1	1,4-Dinitrobenzene	274.		[]	
128			4,6-Dinitro-o-cresol	275		ii	
120.	<del></del>			275.			
129.		( )		2/0.		[]	
130.		[ ]	2,4-Dinitrotoluene	186.		[ ]	Naphthalene
131.		[ ]	2,6-Dinitrotoluene	187.		[ ]	2-Naphthylamine
132.		[ ]	Di-n-octyl phthalate	188.		[]	
122	<del></del>	ij		189		ii	
133.			•	100.	<del></del>		
134.		[]	* = =	190.		[]	p-Nitroaniline
135.		( )	1,4-Dioxane (*)	191.		[]	Nitrobenzene
136.		[ ]	Diphenylamine (difficult to	192.		[]	5-Nitro-o-toluidine
			distinguish from	193.		[ ]	o-Nitrophenol (*)
			diphenylnitrosamine)	104		ìi	p-Nitrophenol
		, 1		105			•
137.		[ ]				[]	N-Nitrosodiethylamine
			distinguish from diphenylamine)	196.			•
138.		[ ]	1,2-Diphenylhydrazine	197.		[]	N-Nitroso-di-n-butylamıne
139.		[ ]	Disulfoton	198.		[]	N-Nitrosomethylethylamine
		[ ]		199.		[]	
140				200			• · · · · · · · · · · · · · · · · · · ·
140.		[]		200.			N-Nitrosopiperidine
141.		[]		201.		[ ]	~ *
142.		[]	Endosulfan sulfate	277.		[]	Oxamyl (*)
143.		[]	Endrin	202.		[]	Parathion
144		ii		203		ίi	
144.				203.		. ,	,, , , , , , , , , , , , , , , , , , , ,
267.		( )					or all Arochlors)
145.		( )	Ethyl acetate	278.		( )	Pebulate (*)
146.		[]	Ethyl cyanide (propanenitrile)	204.		[ ]	Pentachlorobenzene
		[]	•	205.		[]	
140						• •	
140.		[]	•	005		, ,	p-dioxins)
149.		[]		206.			PeCDFs (All pentachlorodibenzofurans)
150.	<del></del>	( )	Ethyl methacrylate	207.		[]	Pentachloroethane (*)
151.		[ ]	Ethylene oxide	208.		{ }	Pentachloronitrobenzene
152.		[]	Famphur	209.		[]	
153		ίí		210		ίí	•
155.				210.	<del></del>		
154.		[]	riuotene	211.		[ ]	Phenanthrene
155.		[]	Fluoride	212.		[]	Phenol
268.		[ ]	Formetanate hydrochloride (*)	213.		[]	Phorate
156.		[]	Heptachlor	214.		[]	Phthalic acid (*)
157		ίi	3	215		ii	
157.			-	213.			_
158.		[]	Hexachlorobenzene	280.		[]	Physostigmine (*)
159.		[]	Hexachlorobutadiene	281.		[]	Physostigmine salicylate (*)
160.		[ ]	Hexachlorocylopentadiene	282.		[]	Promecarb (*)
161		ίi	HxCDDs (All hexachlorodibenzo-	216		Ü	
101.			p-dioxins)	202			
				203.		[]	Propham (*)
162.		[]		284.		[ ]	Propoxur (*)
			furans)	285.		[]	Prosulfocarb (*)
163.		[ ]	Hexachloroethane	217.		[]	Pyrene
164		<b>1</b> 1	Hexachloropropylene	218.		[]	
166	<del> </del>	ίí		219		ίi	Safrole
270	<del></del>			220	<del></del>		
2/0.		ιJ	3-Iodo-2-propynyl	220.		[]	
			n-butylcarbamate (*)	221.		[ ]	
166.		[]	Iodomethane	222.		[]	Silvex (2,4,5-TP)
167.		[]	Isobutyl alcohol	223.		[]	
160		( )	Isodrin	224		Ü	
100.				227.		. ,	
169.	<del></del>	[ ]	Isosafrole				acid)
170.		[ ]	Kepone	225.		[]	1,2,4,5-Tetrachlorobenzene
171.	<del></del>	[ ]	Lead	226.		[]	TCDDs (All tetrachlorodibenzo-
172.		[]	MercuryNonwastewater from Retort			-	p-dioxins)
173		ίi	MercuryAll others			[]	-
174	<del></del>		-	220			
1/4.			Methacrylonitrile	228.	<del></del>	[]	
175.	············	[ ]	Methanol	229.		i J	1,1,2,2-Tetrachloroethane
176.		[]	Methapyrilene	230.		[]	Tetrachloroethylene
272.		[]	Methiocarb (*)	231.		[]	<u>-</u>
273		ίí		232.		ii	•
177	· · · · · · · · · · · · · · · · · · ·	ii		286		ìi	
177.			-	200.			
1/8.			3-Methylcholanthrene	20/.	<u></u>	[ ]	Thiophanate-methyl (*)
			and the facility of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contract				_ • -
179		[ ]	4,4-Methylene-bis(2-chloroan1line)	.233.	<del></del>	[]	Toluene
179		[ ]	4,4-Methylene-bis(2-chloroan1line)	.233. 234.		[]	Toluene Toxaphene
179			4,4-Methylene-bis(2-chloroan1line)	.233. 234.			Toxaphene
179		[ ]	4,4-Methylene-bis(2-chloroan1line)	233. 234. 289.		[]	Toxaphene Triallate (*)
179		[ ]	4,4-Methylene-bis(2-chloroan1line)	233. 234. 289.		[]	Toxaphene

CLEAN HARBOR	S ENVIRONM	ENTAL SERVICES, INC.			1 1
LAND DISPOSA	L RESTRICT	ION NOTIFICATION FORM LDR-1	ADDENDUM Manı	fest No. 🚐	
236	( )	1,2,4-Trichlorobenzene	244.	[]	1,1,2-Trichloro-1,2,2-trifluoroethane
237.	[]	1,1,1-Trichloroethane	290.	[ ]	Triethylamine (*)
238	[]	1,1,2-Trichloroethane	245.	[]	tris-(2,3-Dibromopropyl)phosphate
239.	<u> </u>	Trichloroethylene	246.		Vanadium (*)
240.	[]	Trichloromonofluoromethane	291.	( )	Vernolate (*)
241.	[]	2,4,5-Trichlorophenol	247.,	( )	Vinyl chloride
242.	[]	2,4,6-Trichlorophenol	218.	[]	Xylenesmixed isomers (sum of o
243.	<u> </u>	1,2,3-Trichloropropane	1,		m-, and p-xylene concentrations)
•			. 249	f 1	Zinc (*)

#### KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in \$268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in \$268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]

19. Discrepancy Indication Space

A

FOR SHIPMENT OF HAZARDOUS P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039 Manifect 1, Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by Illimois law. 2. Page 1 **UNIFORM HAZARDOUS** WASTE MANIFEST *0003*3 T N D Ø 4 Ø 8 8 8 9 Location If Different A. Illinois Manifest Document Number 3. Go 500 or En Adres and Mallin HA offers y Group A. Illinois Manilest Document Politics
FEE PAID
IF APPLICABLE 414 Plaza Drive 6500 INDUSTRIAL HIGHWAY GR 6499 Industrial Highway GROUP Suite 106 B. Generator's IL B. Generator's 117/18 00/19999 Westmont, IL 60559 Gary, IN 46406 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 C) Transporter's No. 10 Number UNO 0 8 107 429 ENV. SERVACES, US EPA ID Number 5. Transporter 1 Company Name IM. MD039322250 CUSAN HARBOR D. Transporter's Phone (781) 8491800 E Transporters 7. Transporter 2 Company Name 8. **US EPA ID Number** F. Transporter's Phone ( ) 9. Designated Facility Name and Site Address 10. US EPA ID Number Facility's IL G Facility's IL ID Number 0 13 11 16 0 00 0 0 15 Clean Harbors Services Inc H. Facility's Phone 11800 South Stony Island Ave 773':646=6202 Chicago, Tl. 60617 LT I. D 0 0 0 6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) T. D Ø Ø Ø 6 Ø 8 12. Containers 13 14. Unit Total Туре Quantity WWo! EPA HW Number WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. 83 Е (Sulfuric Acid), 8, UN3264, II N 002 DF-G (D00 B Е EPA HW Number 30 b. A HAZARDOUS WASTE LIQUID, N.O.S., 9, NA3082, III DI-0.0 J EPA HW Number 0 RO, Waste Corrosive Liquids, basic, Inorganic, N.O.S (Sodium Hydroxide, Potassium Hydroxide), 8, R D 0 0 A.S 0.0.1 DT UN3266, II (D00A) EPA HW Number d J. Additional Description for Materials Listed Above

11a CH144189

D002 D007 D008 2 X55

11b CH144190

D007

1 X 55

1 C CH144194

X 3 0 15. Special Handling Instructions and Additional Information wo# NB204449 TRUCK \$ 587 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date ALOUT FORESON Printed/Typed Name Signature Day Year THOMAS J. RYSIGUILL INO. HOWY GRAND 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signatur Month Day Year CHEMINA HAOLIL 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Day Printed Typed Name Signature Month Year MENTE

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www

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years. This form has been approved by 9 Forms Management Center

Manıfest	No	JL8494411	
nantrest	MO.	- 00 1 ( 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

  Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
  - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
  - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
  - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States. all applicable LDR regulations would apply and a revised LDR notification would be required.
  - 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45" and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
  - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3: WASTEWATER/ NON-WASTEWATER			UMN ING		
	) D001	Ignitables, except High TOC subcategory	• •	WW [] Non-WW	1	2	3	4	6
· · ·	) D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[]	Non-WW only	1A		3	0	
	D002	Corrosives	ιø	WW [ ] Non-WW	$\odot$	2	3	4	6
		Reactive Sulfide, per 261.23(a)(5)	[]	WW [] Non-WW	1	3	4	5	6
	( )	Reactive Cyanide, per 261.23(a)(5)	[]	WW [] Non-WW	1	3	4	5	6
	[]	Explosive, per 261.23(a)(6), (7) & (8)	[]	WW [] Non-WW	1	2	3	4	٠6 ٠
	[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW only	1	2	3	4	6
	[ ]	Other Reactive, per 261.23(a)(1)	[]	WW [] Non-WW	1	2	3	4	6
	[]	Unexploded Ordnance, Emergency Response	[ ]	WW [] Non-WW	1	3	4	5	6
[]	] D004	Arsenic	[ ]	WW [] Non-WW	1	2	3	4	6
	D005	Barıum	1	WW [] Non-WW	1	2	-3 -	- 4	6
[	[ ] D006	Cadmium	[ ]	ww [] Non-ww	1	2	<b>7</b> 3 <b>2</b>	4	6
114	( )	Cadmium Containing Batteries	[ ]	Non-WW only	2	3	6		
Thrup W		Chromium	[7]	WW [] Non-WW	Œ,	2	3	4	6
	[ ] [ ]	Lead Lead Acid Batteries	ι <b>λ</b> ι	ww [] Non-ww Non-WW only	$\frac{C_2}{2}$	2	3	4	6

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## SECTION 1. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / NAME		N	COLUMN 3: WASTEWATER/ ON-WASTEWATER	COLUMN HANDLING	
	[] D009 []	Low Mercury, less than 260	mg/kg Mercury	[ ] W	W [] Non-WW	1 2 3	4
	[]	High Mercury Organic Subca			on-WW only on-WW only	2 3 4 2 3 4	
	[] D010	Selenium		( ) W	•	1 2 3	4 6
	[ ] D011	Silver		[ ] W		1 2 3	4 6
	[ ] D012	Endrin		( ) W		2 3 4	5 6
	[ ] D013	Lindane		( ) W	1 1	2 3 4	5 6
	[ ] D014	Methoxychlor		[ ] W	I I	2 3 4 2 3 4	5 6 5 6
<del></del>	[ ] D015 [ ] D016	Toxaphene 2,4-D		[] W	• •	2 3 4	5 6
<del></del>	[ ] D016 [ ] D017	2,4,5-TP (Silvex)		[] W		2 3 4	5 6
	[ ] D018	Benzene		( ) W		1 2 3	4 6
	[] D019	Carbon tetrachloride		[ ] W	W [] Non-WW	1 2 3	4 6
	[ ] D020	Chlordane		[ ] W	W [] Non-WW	1 2 3	4 6
	[ ] D021	Chlorobenzene		( ) W	1 1	1 2 3	4 6
	[ ] D022	Chloroform		[ ] W	1 1	1 2 3	4 6
	[ ] D023	o-Cresol		[ ] W		1 2 3	4 6
	[ ] D024	m-Cresol		[ ] W	: :	1 2 3	4 6
	[ ] D025 [ ] D026	p-Cresol Cresol		[] W		1 2 3	4 6
	[ ] D027	1,4-Dichlorobenzene		[] W		1 2 3	4 6
	[ ] D028	1,2-Dichloroethane		[ ] W	W [] Non-WW	1 2 3	4 6
	[] D029	1,1-Dichloroethylene		{ } w	W [] Non-WW	1 2 3	4 6
	[ ] D030	2,4-Dinitrotoluene		[ ] W		1 2 3	4 6
	[ ] D031	Heptachlor (and its epoxi	de)	[ ] W	: •	1 2 3	4 6
	[ ] D032	Hexachlorobenzene	•	[ ] W	I I	1 2 3	4 6
	[ ] D033	Hexachlorobutadiene	1.15	[ ] W	1 1	1 2 3	4 6
	[ ] D034 [ ] D035	Hexachloroethane Methyl ethyl ketone	·	[] W	1 1	1 2 3	4 6
<del></del>	[ ] D036	Nitrobenzene		[ ] W		1 2 3	4 6
	[ ] D037	Pentachlorophenol		[ ] W	1 1	1 2 3	4 6
	[] D038	Pyridine		[ ] W	W [] Non-WW	1 2 3	4 6
	[ ] D039	Tetrachloroethylene		[ ] W	W [] Non-WW	1 2 3	4 6
	[ ] D040	Trichloroethylene		[ ] W	1 1	1 2 3	4 6
	[ ] D041	2,4,5-Trichlorophenol		( ) W	_ :	1 2 3	4 6
	[] D042	2.4,6-Trichlorophenol		( ) W		1 2 3	46
	[ ] D043	Vinyl Chloride		( ) W	n ( ) Non-an	1 2 3	• •
SECTION II.	SPENT SOLVE	NT WASTES FOO1 THROUGH FOO	5				
COLUMN 1:		COLUMN 5:			COLUMN 3:	COLUMN	
LINE ITEM		WASTE CODE / CONSTITUE	INTS		WASTEWATER/	HANDLING	CODE
SEE MANIFEST				N	ON-WASTEWATER		
	[ ] F00Î	[ ] F002 [ ] F003 [	] F004 [ ] F005	[ ] W	W [] Non-WW	3 4	5 6
[]	1. ALL F001 2. Acetone	-F005[]	12. Cyclohexanone			. Pyridine . Tetrachlo	roethvlene
;	3. Benzene		14. 2-Ethoxyethano			. Toluene	•
	4. n-Butyl		only)		[] 28	. 1,1,1-Tri	chloro-
		isulfide[]	15. Ethyl acetate			ethane	
		etrachloride[]	16. Ethyl benzene		[] 29	. 1,1,2-Tri	chloro-
[ ]	7. Chlorobe		17. Ethyl ether	ho1	f 1 30	ethane	athulana
[ ]	8. o-Cresol	• • • • • • • • • • • • • • • • • • • •	18. Isobutyl alcoh 19. Methanol	101		. Trichloro . 1,1,2-Tri	-
( )	<ol><li>m-Cresol distingui</li></ol>		20. Methylene chlo	oride	( 1 31	1,1,2-1116 1,2,2-trif	
	p-cresol)	<del></del>	21. Methyl ethyl k		[] 32	. Trichloro	
[]	•	(difficult to []	22. Methyl isobuty			methane	
	distingui		23. Nitrobenzene		[] 33	. Xylene - g	
	m-cresol)	· · · · · · · · · · · · · · · · · · ·	24. 2-Nitropropane	e (F005		(sum of o-	
[]		mixed isomers	only)		`	p-xylené) ^	-
	•	o-, m- and					
	p-cresol)						

LAND DISPOSAL	ENVIRONMENTAL SERVICES, INC.  RESTRICTION NOTIFICATION FORM LDR-1  CALIFORNIA LIST WASTES	nifest No	IL 8494	1411	
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	WAS	OLUMN 3: STEWATER/ WASTEWATER	COLUMN 4: HANDLING COD	Œ
<del></del>	Hazardous waste containing one or more of the follow California List constituents:	ng [] ww	[] Non-ww	1 2 3 4 5	6
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 13 [] Liquids with thallium greater than or equal to				
	<ul><li>[ ] Liquids with PCB's &gt; or = 50 ppm</li><li>[ ] Waste containing HOC's &gt; or = 1,000 mg/kg</li></ul>				
SECTION IV.		, K-, U-, AND	P-CODES)		
SECTION IV. COLUMN 1: LINE ITEM SEE MANIFEST	[ ] Waste containing HOC's > or = 1,000 mg/kg	CC WA:	P-CODES) DLUMN 3: STEWATER/ WASTEWATER	COLUMN 4: HANDLING COD	)E
COLUMN 1: LINE ITEM	[ ] Waste containing HOC's > or = 1,000 mg/kg  OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039  COLUMN 2:	CC WA:	OLUMN 3: STEWATER/		
COLUMN 1: LINE ITEM SEE MANIFEST	( ) Waste containing HOC's > or = 1,000 mg/kg  OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039  COLUMN 2: WASTE CODE / SUBCATEGORY	CC WA: NON - I	OLUMN 3: STEWATER/ WASTEWATER	HANDLING COD	5
COLUMN 1: LINE ITEM SEE MANIFEST	( ) Waste containing HOC's > or = 1,000 mg/kg  OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039  COLUMN 2: WASTE CODE / SUBCATEGORY	CX WA: NON-1	OLUMN 3: STEWATER/ WASTEWATER [ ] Non-WW	HANDLING COD	5
COLUMN 1: LINE ITEM SEE MANIFEST	( ) Waste containing HOC's > or = 1,000 mg/kg  OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039  COLUMN 2: WASTE CODE / SUBCATEGORY	CC WA: NON-1 WW (X)	OLUMN 3: STEWATER/ WASTEWATER  [ ] Non-WW  [ ] Non-WW	3 4 5 6	; ;

SECTION V. CONTACT NAME AND DATE

Print Name: THOMAS J. RYSIEWICZ

AGENT FOR 6500 INDUCTRIAL

HIGHWAY GROUP

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well faculity regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

Date: _____

	ly disposed of in accordance with all loc of "means either: 1) Burial or 2) Processed of		_
		<b>)</b>	
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatme	ent Plant	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		·
PHONE NUMBER:	1-800-592-5489	* \(\frac{1}{2} \)	
FAX NUMBER:	1-800-592-5329		
Authorized Signature:	Imp In orien	_	



## **Waste Tracking Report**

February 23,2000

Page 18

Clean Harbors - Chicago, IL 11800 South Stony Island Ave Chicago, IL 60617 ILD000608471

## Certificate of Treatment/Disposal - Storage and Transfer

IL8493061	IL8493267	IL8494412
IL8493075	IL8493268	IL8494413
IL8493074	IL8493270	
IL8493100	IL8493271	
IL8493099	IL8493356	
IL8493097	IL8493362	
IL8493098	IL8493439	
IL8493131	IL8493469	
IL7418744	IL8493470	
IL8493238	IL8493996	
IL8493239	IL8494038	
IL8493236	IL8494037	
IL8493265	IL8494039	
IL8493264	IL8494411	

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Signed: Jacob Metabell	Date: <u> </u>
Title:	



## **Waste Tracking Report**

February 23,2000 Page 19

Clean Harbors - Cincinnati, OH 4879 Spring Grove Avenue Cincinnati, OH 45232 OHD000816629

Certificate of Treatment/Disposal - Storage and Transfer

IL8493092 INA1359221 INA1339655

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Signed: Janh Metakell	7 Date: <u>مراد عرام م</u>
Title:	



## Newton County Landfill 2266 E 500 S., Brook, IN 47922

Tel: (219) 394-2808

001149 KRTKAU, PYLES RYSTEWICZ

414 PLAZA DRIVE SUITE 106 WESTMOUNT II. 60559

SITE 18	TICKET	40		GRID
RAG	DUR),	1	WEIGHN	IASTER
DATE IN	10/1	२/५५		TIME IN 16:07
DATE OU	π 10/1	3/49		тиме оит 16:07
	VEHICL	E		ROLL OFF
ı	NI73			
·RE	FERENCE			ORIGIN
		LAKE	COL	NTY

Manua L	Gross	Weight
---------	-------	--------

58780

Inbound - Charge ticket

Stored Tare Weight

29600 I.B29180 T.R

LB

C OT	Y. '-	UNIT	DESCRIPTION	7	RATE	EXTENSION	TAX	TOTAL
	14.59		Special Waste - Ton	,			Ξ.	

Manifest # 993050 PRP GROUP NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

# Special Waste Disposal Notification GENERATOR INFORMATION

99101303

Company Name: 6500 Jul	dusinia S.tc/	of Hishway G.	Technical Conta	ct: 1. Rysi	enicz
Mailing Address: KPR = A 4/4/P/A WESTMo Telephone No.:	1350CLAI ZADLI MI, JL	#106 4106 1.60559	Generation Loca 6499  GAA7 EPA ID No. (if A	ition: Triclustria 1, IN 4	
219-944,8357 630-325-1300	7 WASTE	E INFORMATIO	N	·	
Waste Name د	Category A or B	Certification No. (if applicable)	Verification No. (if applicable)	Volume/ Weight	One-time only Disposal
NON HAZARDOUS SLECTEL	B'	o ··	NC - 993586		
· · · · · · · · · · · · · · · · · · ·					
(ATTA	CH ADDITIO	ONAL SHEET IF NE	CESSARY)		<u></u>
I hereby certify that the above information Signature (pri		ue and accurate to t	·	_	
	RANSPOR'	TER INFORMAT	FION		
Company Name:    Water   Var   Driver's Signature	Ma	, . N	Mailing Address:  10 -13-  Date	9	
Di	ISPOSAL S	SITE INFORMAT		Visually In:	spected By:
Site Name: OPF	P No.:	Volume/Weig	ght: 14,59 0.13 99		
Authorized Signature	<u>'</u>	( <u>)</u>	Oate	(continued on	back)

## **Newton County Landfill**

Tel: (219) 394-2808

2266 E 500 S., Brook, IN 47922

001149 KRIKAH, PYLES. RYSTEWICZ

414 PLAZA DRIVE SHITE 106 WESTMOUNT II. 60559

SITE	TICKET			GRID			
18	1118	414					
	•	1	NEIGHN	ASTER		···········	
RAG	OUBL.						
DATE IN				TIME IN			
	10/1	7/44			1.4	1.56	
DATE OU	JT			TIME OL	JT		
	10/13	2/99			1.4	1.56	
<b>`</b>	VEHICL	E	2.50	100	RC	OLL OFF	
I	NT70						
RE	EFERENCE				ORIGIN	1.4.9	•
		LAKE	CO	МДА			

Scale 1 Gross Weight

59400 LB Inbound - Charge ticket

Stored Tare Weight Net Weight

29920 LH 29480 T.B

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOT
14.74	TON	Special Waste - Ton				
			,			
	:					
	•					

Manifest # 993586 6500 IND./REF. BRICK

NET AMOUNT

99101266

TENDERED

CHANGE

CHECK NO.

One-time only

Disposal

**Special Waste Disposal Notification GENERATOR INFORMATION** 6500 IND. HEWY PRP GROUP CCCI SITE /GARY, INDIANA Technical Contact: T. RYSIEWILZ Company Name: Mailing Address: KPR & ASSOCIATES, TUC.
414 PLAZA DR., SUITE 106
WESTMOUT, IL. 60559 Generation Location: 64-99 INDUSTRIAL HGWY GARY, IN GABAB 46406 (219)944-8357 EPA ID No. (if Applicable) Telephone No.: (630) 325-1300 **WASTE INFORMATION** Category Certification Verification Volume/ Weight A or B No. No. **Waste Name** (if applicable) (if applicable) UON-HAZARBOUS SPECIAL WASTE Nr. 993586 RUFEAUNET BRICK (ATTACH ADDITIONAL SHEET IF NECESSARY) I hereby certify that the above information is true and accurate to the best of my knowledge. THOMAS J. RYSILWILZ 10-12-99
Signature (print or type) Date AUTHORIZED REPERSENTATIVE FOR 6500 INDUSTRIAL HIGHWAY TRANSPORTER INFORMATION Company Name: Mailing Address: Date DISPOSAL SITE INFORMATION

Visually Inspected By: OPP No.: 66-5 Volume/Weight: 14.74 Site Name: Authorized Signature (continued on back)

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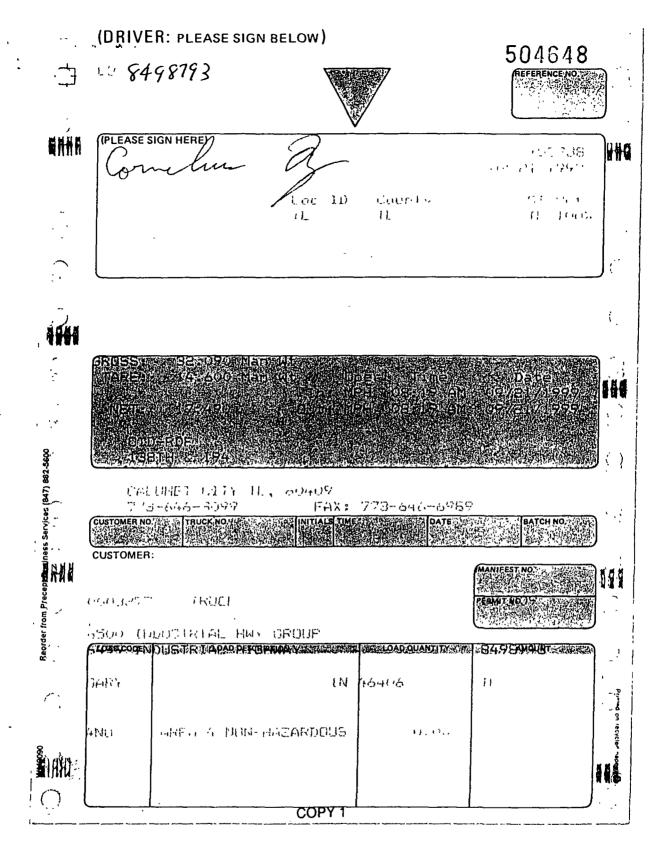
P.O. BOX 19276

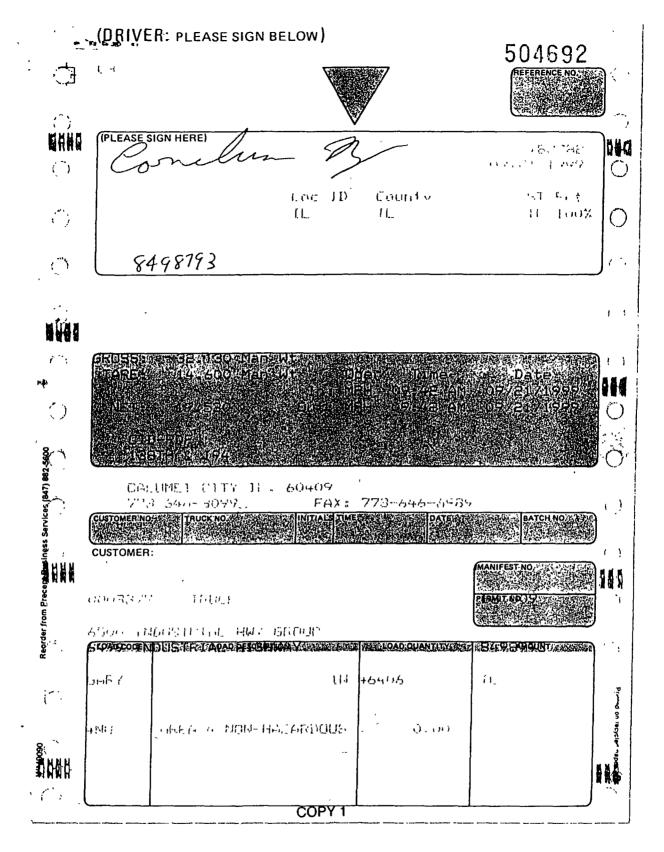
## SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

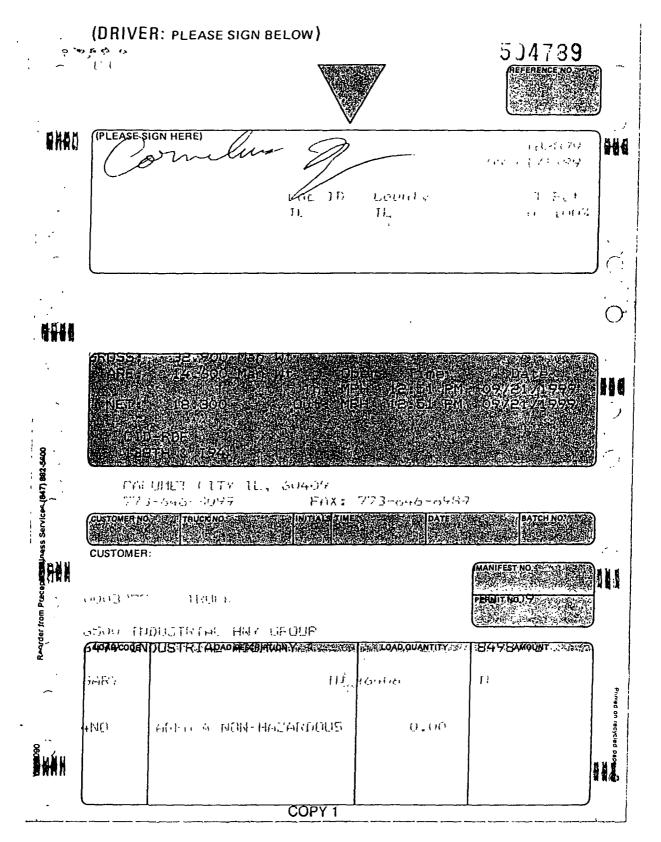
FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

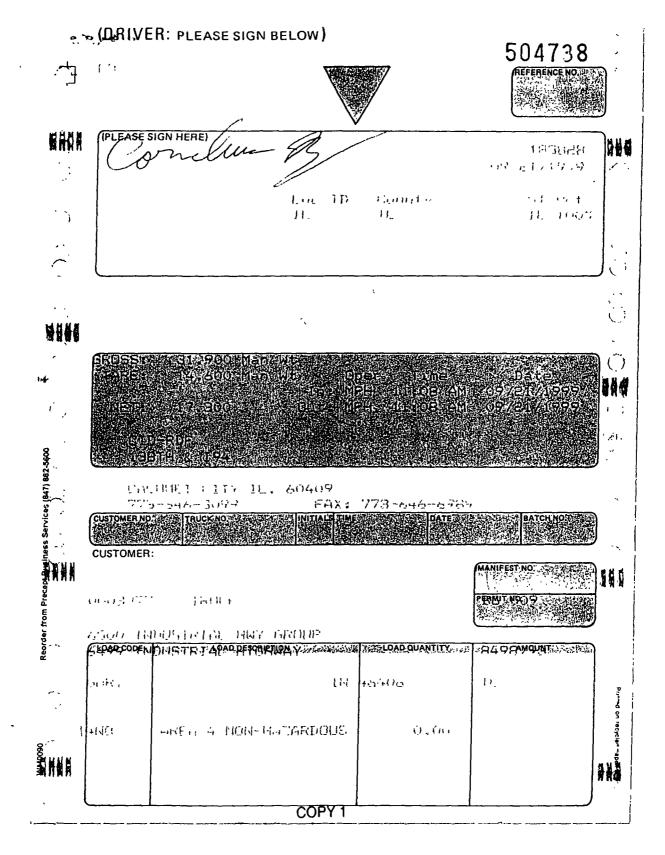
State Form LPC 62 8/81 H 532-0610 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No 2050-0039 1. Generator's US EPA ID No. Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS 19909210 WASTE MANIFEST A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different 6500 INDUSTRIAL HIGHLAY GIRCUP 84987 6499 IUWITHIAL HIGHWAY B. Generator's IIq GON / TN. 469-66
24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* ID Number 630-325-1300 Transporter's US EPA ID Number 5. Transporter 1 Company Name ID Number きり D. Transporter's Phone (708) 474 -0044 052 7. Transporter 2 Company Name US EPA ID Number Transporter's **ID Number** F. Transporter's Phone ( 9. Designated Facility Name and Site Address 10 US EPA ID Number CID RDF 44. 13874 & BISHOP FORD FWY G. Facility's IL 03 10 Number H. Facility's Phone (773 646 - 3099 COLUMET CITY, IL 60409 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 14. Unit Total Waste No. No. Туре Quantity Wt/Vo EPA MW Number a. 77.9**4** NOT HATAROOUS BY DOT PETRULEUM SUIL 001 BG 009 **EPA HW Numbe** h EPA HW Number C. **FPA HW Number** d. K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above CLASS A PROFILE BG 009 15. Special Handling Instructions and Additional Information LOAD 2 15 LOAD 3 15 LOAD 4 15 LOADS 15 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Month Day Printed/Typed Name 7he 6500 2 nd -12. Signature 0921191 Hickman Gow 17. Transporter 1 Acknowledgement of Receipt of Materials Date -Printed/Typed Name Month Day Year Signature 14/14/1 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed/Typed Name Signature Month Day Year

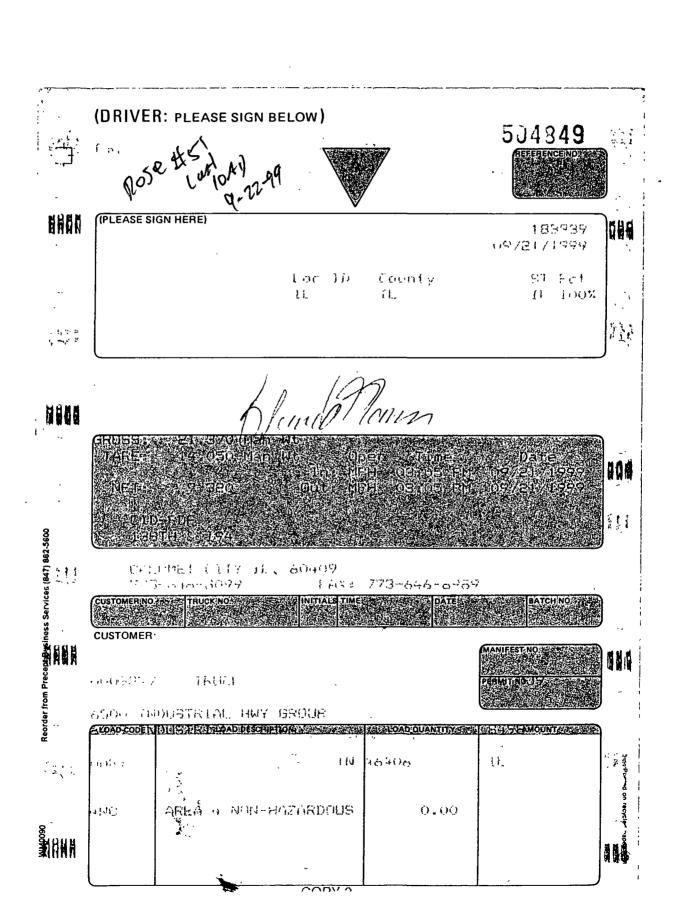
This Agency is authorized to require; pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency Failure to provide this Information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this Information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.











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FOR SHIPMENT OF HAZARDOUS SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 P.O BOX 19276 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No 2050-0039 (Form designed for use on elite (12-pitch) typewriter.) Manifest Document No 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS 2. Page 1 WASTE MANIFEST / of 79092107 A. Illinois Manifest Document Number
FEE PAID Location If Different 3. Generator's Name and Mailing Address 6500 INDUSTRIAL HIGHWAY GROUP
6499 INDUSTRIAL HIGHWAY GROUP
6107 IN 46406
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 6 84987 IF APPLICABLE B. Generator's ILQ 1800119191919 ID Number ( 630-325-1300 Transporter's US EPA ID Number 5. Transporter 1 Company Name ID Number WITYOUT Transporter's Phone (70%) 474-0044 E. Transporter's ID Number 7. Transporter 2 Company Name 8. **US EPA ID Number** F. Transporter's Phone ( US EPA ID Number 9. Designated Facility Name and Site Address 10. ROF #4 G. Facility's IL ID Number | 0,3,1,6 138TH & BISHUP FORD FUY. CALUMET CITY, IL 60109 H. Facility's Phone (773) 646-309 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 13. Unit Total Waste No. Type Quantity Wt/Vol EPA HW Number a. NUT HAZAROUUS BY DOT 87.67 PETRELEUM & CONTRIMIUNTED 001 KG 009 **EPA HW Number** b. **EPA HW Number** C. **EPA HW Number** d. K. Handling Codes for Wastes Listed Above in Item #14 J. Additional Description for Materials Listed Above CUSSA PROFILE BG 009 15. Special Handling Instructions and Additional Information LOPD 215 LD. 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date ROUNT FOR THE 6500 Printed/Typed Name Month Day Signature 092199 17. Transporter 1 Acknowledgement of Receipt of Matérials Printed/Typed Name Month Day Signature Van Brucks 019121/1919

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name

Signature Month Day

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

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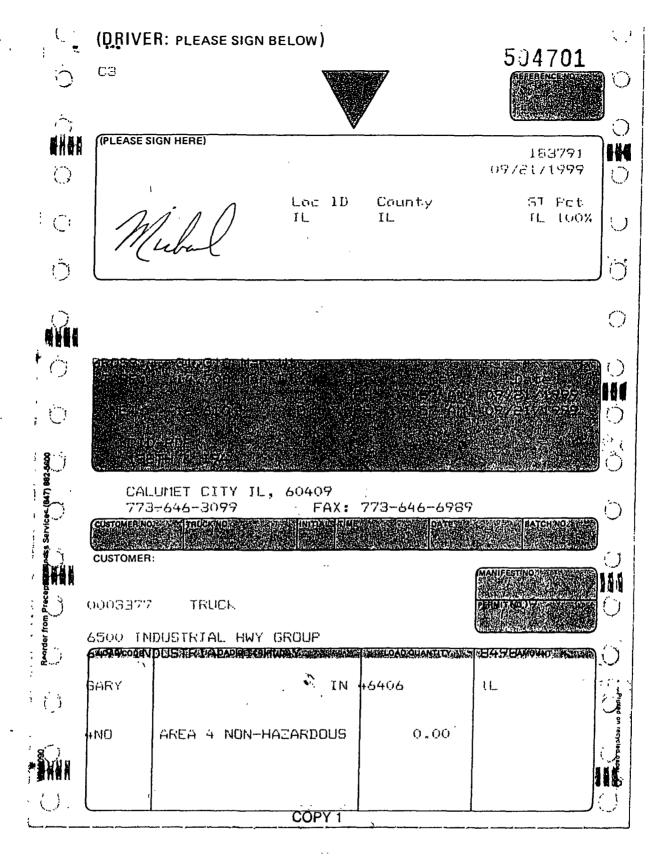
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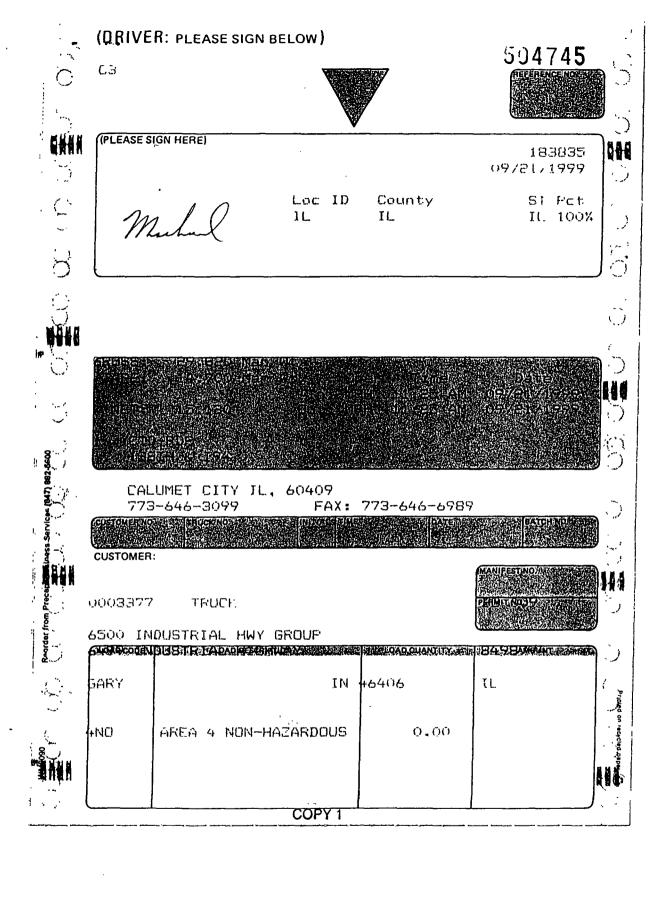
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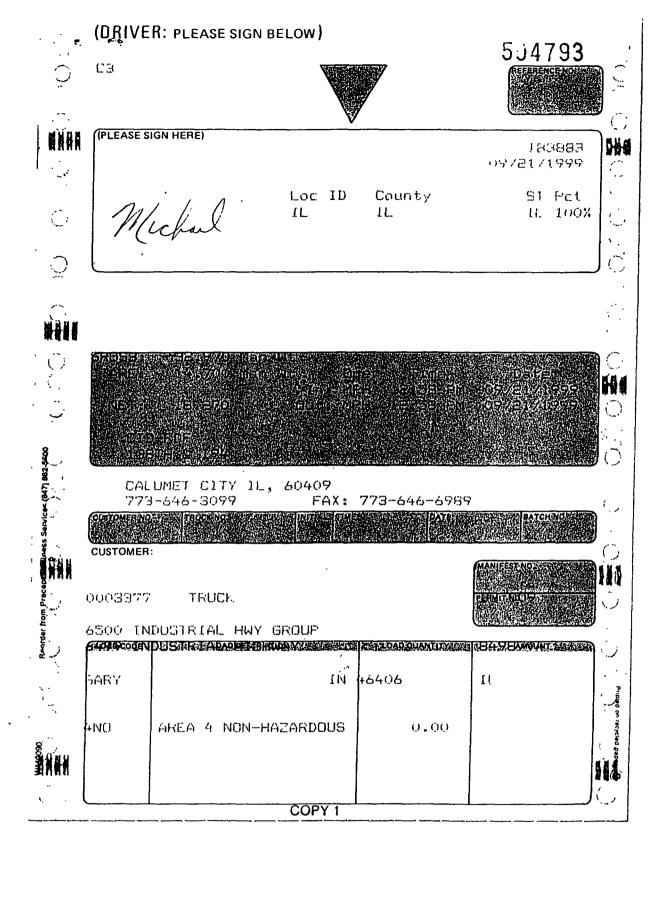
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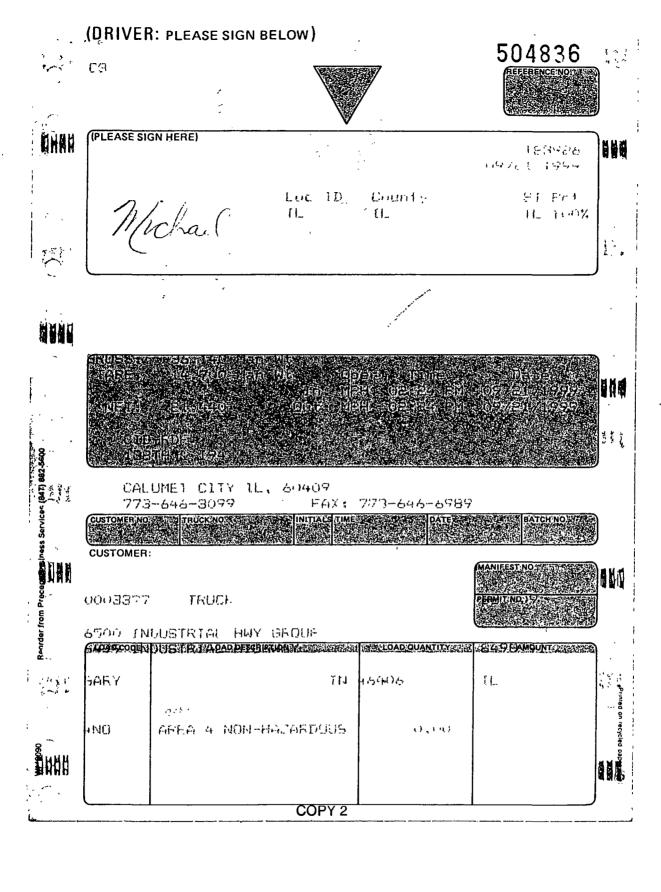
This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

(DRIVER: PLEASE SIGN BELOW) 504650 C3 8498794 (PLEASE SIGN HERE) J83740 09/21/1999 Loc ID County SI Pot 11_ 11. 11. 100% T-1-CALUMET CITY IL, 60409 773-646-3099 FAX: 773-646-6989 CUSTOMER: 0003377 TRUCK 6500 INDUSTRIAL HWY GROUP. STANDOENDIJESTENDAMONETERIMANAS SANOVAS SANOVAS SECTERIMANAS SECTERIMANAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANOVAS SANO [] IN 45405 BARY ONE AREA 4 NON-HAZARDOUS 0.00 COPY 1









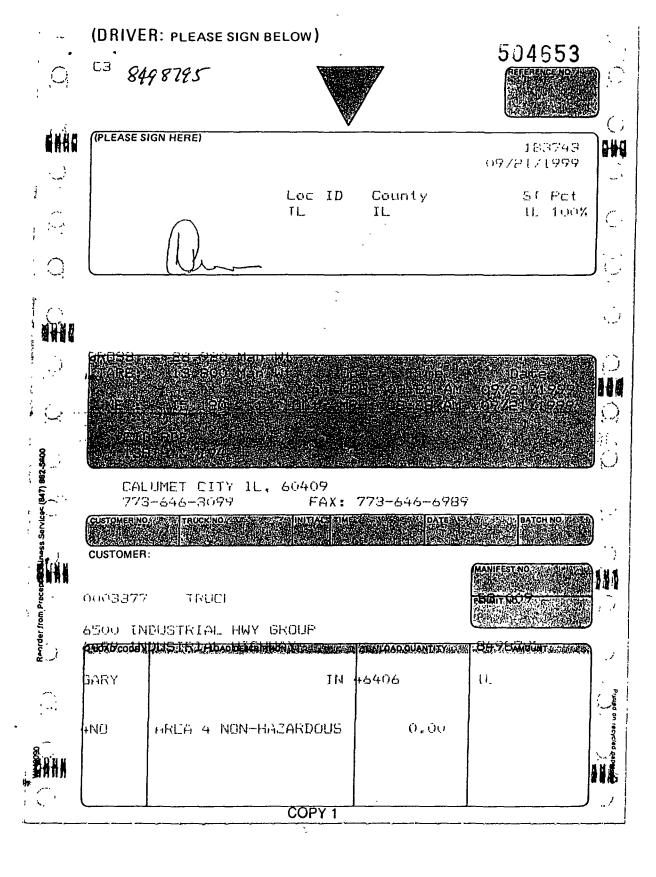
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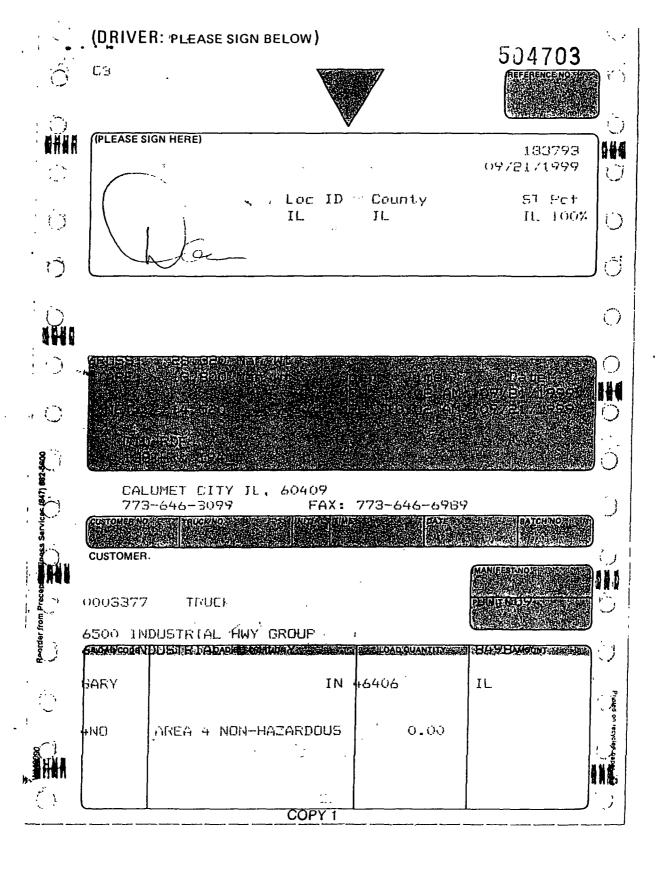
## SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

LPC 62 8/81 IL532-0610 State Form PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No 2050-0039 Manifest Pocument No. 19092103 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by illinois law. UNIFORM HAZARDOUS 2. Page 1 **WASTE MANIFEST** A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different 6500 INDUSTRIAL HIGHLUAY GROUP 84987 6499 IUDUSTRIAL HIGHWAY B. Generator's llg 4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 8.0019.999 ID Number 630-325-1300 Transporter's 5. Transporter 1 Company Name US EPA ID Number ID Number 1400cm 272 D. Transporter's Phone ( 70) 7. Transporter 2 Company Name **US EPA ID Number** Transporter's ID Number F. Transporter's Phone ( US EPA ID Number 9. Designated Facility Name and, Site Address CID ROF #4 13874 & BISHOP FORD FWY. G. Facility's IL ID Number CALUMET CITY, IL 60409 1 H. Facility's Phone (7/3) 646-309 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Unit Total Waste No. Type No. Quantity Wi/Vo NOT HAZARDOUS BY DOT **EPA HW Number** 80.15 ์ วังเราไร้ Ε 00107 BG 009 N PETROLEUM CONTAMINATED SOIL EPA HW Number h. **EPA HW Number** d. K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above acass A PROFILE BG009 15. Special Handling Instructions and Additional Information LOND 2 15 LOND 3 15 LOND 15 LOND 5 15 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name AgeIN fall 6500 DAVIDRY/PS - That serve the charles Month Day Year 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day ANSPORTER 1.1 18. Transporter 2 Acknowledgement of Receipt of Materials Date Signature Printed/Typed Name Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Year Printed/Typed Name Signature

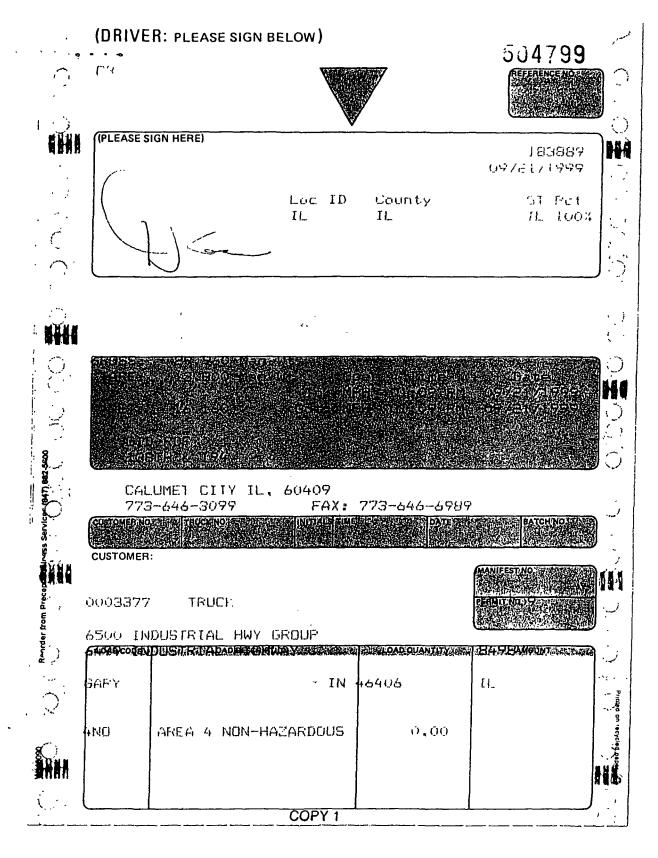
This Agency is authorized to require, pursuant to librois Revised Statute, 1989, Chapter 111; 1/2; Section 1004 and 1021, that this information be submitted to the Agency, Failure to provide this information may result in a civil penalty against the owner or operator not to exceed: \$25,000 per day of violation Failsfication of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center:

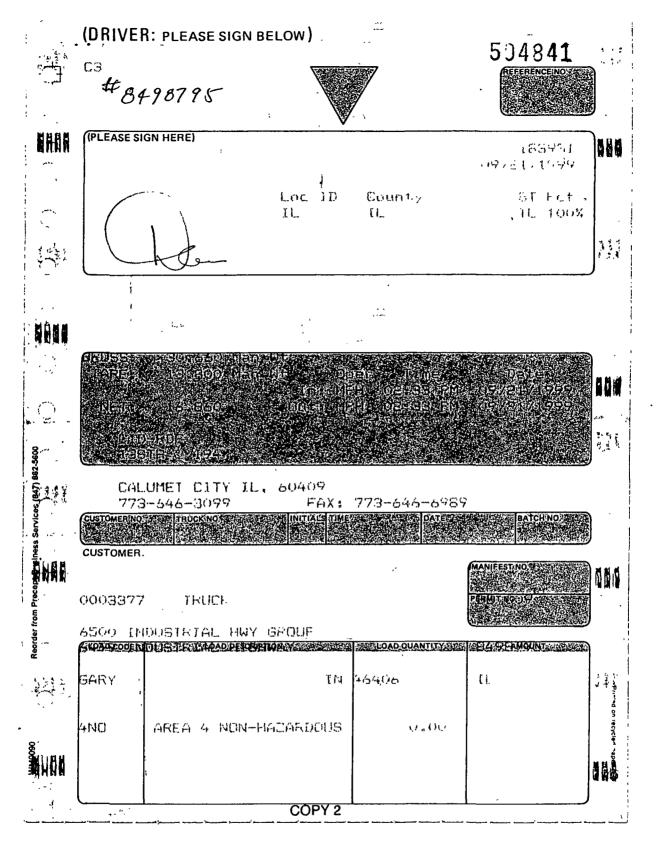




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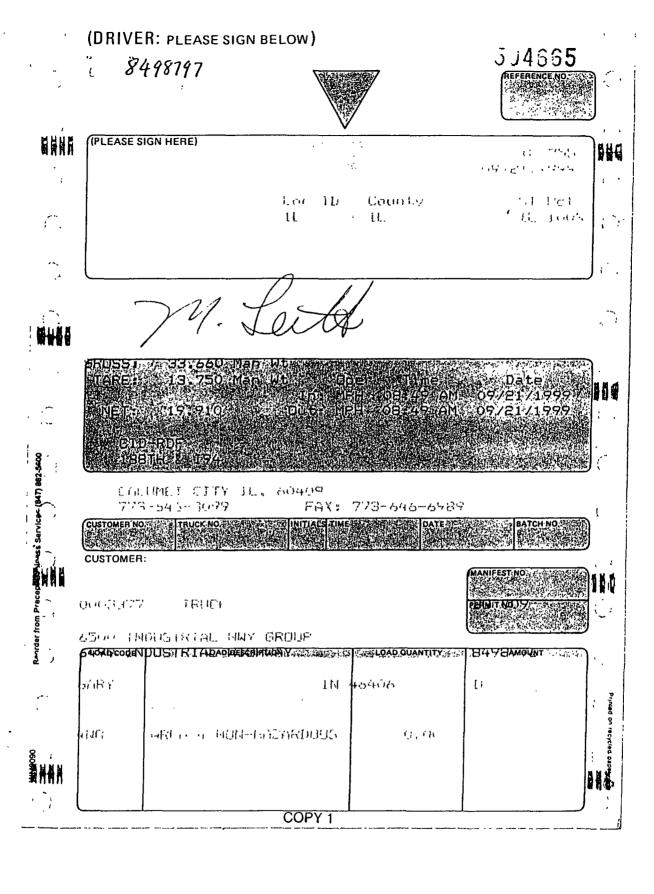
FOR SHIPMENT OF HAZARDOUS SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 P.O. BOX 19276 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 LEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No 2050-0039 1. Generator's US EPA ID No. Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. 2 Page 1 UNIFORM HARARDOUG WASTE MANIFEST 1909210 3. Generator's Name and Mailing Address 6500 FLIOUSTEINL. Location If Different A. Illinois Manifest Document Number FEE PAID HIGHWAY HIGHWAY GRUUP IF APPLICABLE 6499 INDUSTEIAL GARY, IN. 4640 B. Generator's 1/2 IN. 46406 **ID Number** 4. '24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS' 630-325-1300 Transporter's US EPA ID Number 5. Transporter 1 Company Name ID Number Transporter's Phone 7. Transporter 2 Company Name US EPA ID Number Transporter's ID Number F. Transporter's Phone ( 9. Designated Facility Name and Site Address 10. **US'EPA ID Number** CID ROF #4 13874 & BISHOP FORD FWY. G. Facility's IL CALUMET CITY, IL. 60409 H. Facility's Phone (773) 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 13. Total Unit Waste No. Type Quantity EPA HW Number a. BY NOT HAZARDOUS 104.47 5011 001 RG 009 PUTROLEUM CONTAMINATED b EPA HW Number d. J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 PROFILE B6009 15. Special Handling Instructions and Additional Information LOAD Z 15 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. 65,00 3000 3110 Month Day Printed/Typed Name Year 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year 9211 A. 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space

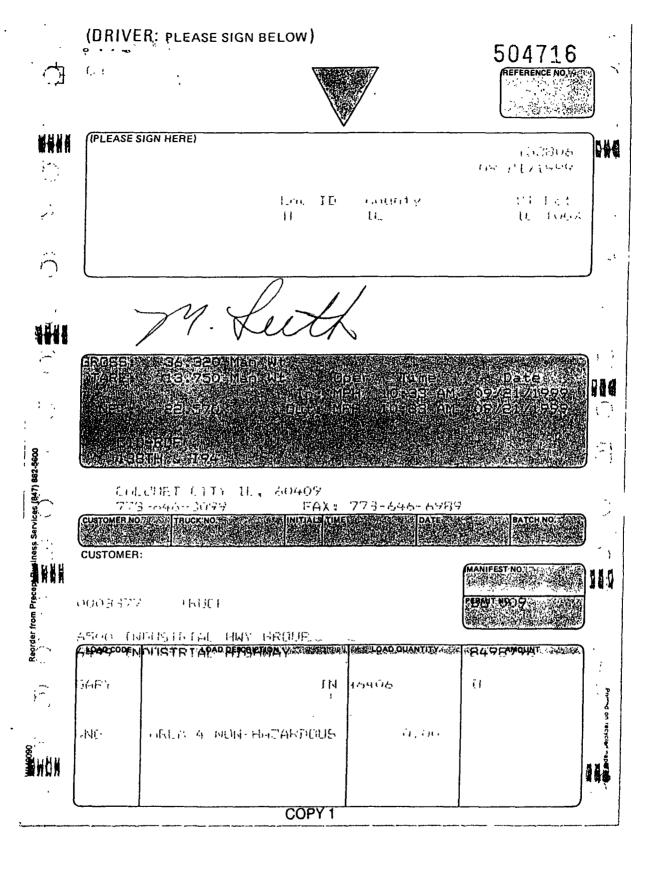
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Date Month Day

Year

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.



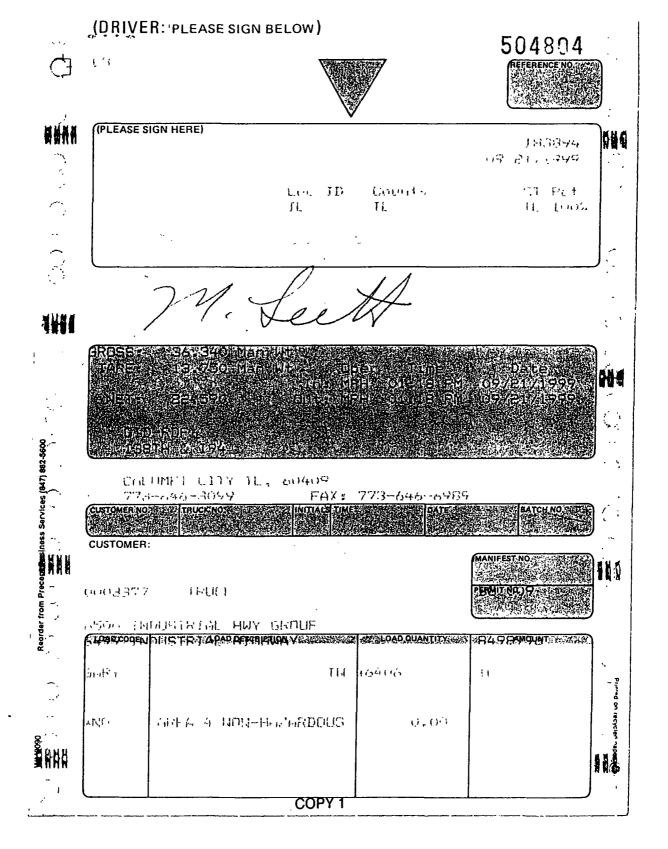


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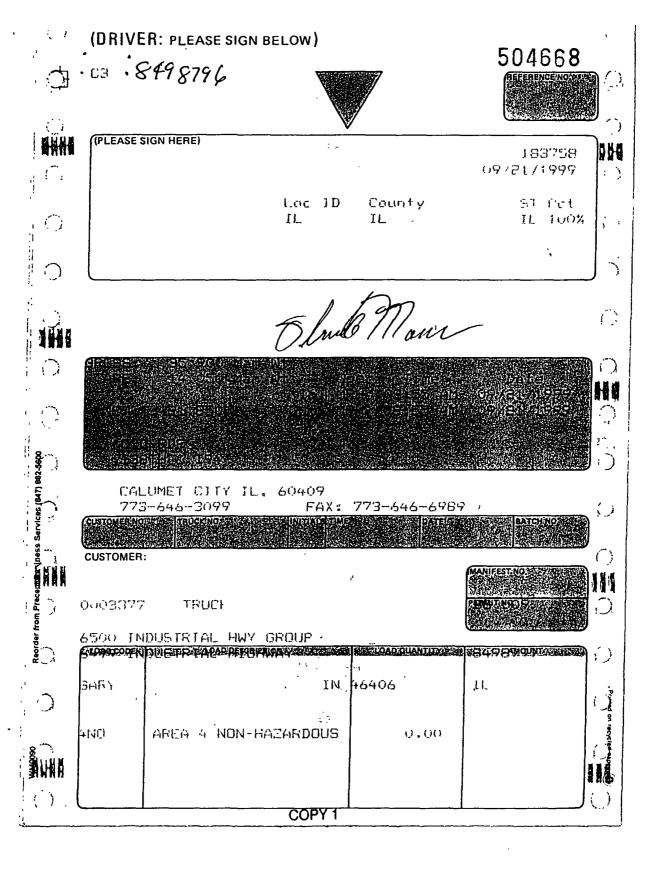
FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 Manifest Document No 99092105 Information in the shaded areas is not required by Federal law, but is required by illinois law. 1. Generator's US EPA ID No. *UNIFORM HAZARDOUS **WASTE MANIFEST** A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location II Different
6500 INDUSTRIAL HIGHWAY GROUP
6499 INDUSTRIAL HIGHWAY
6ARY, IN. 46406 B. Generator's 19118 00 19999 4. 124 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 630-325-1300 Transporter's US EPA 1D Number 5. Transporter 1 Company Name ID Number KUSE #62 D. Transporter's Phone (70K) 474-0044 7. Transporter 2 Company Name US EPA ID Number E. Transporter's ID Number F. Transporter's Phone ( ) 9. Designated Facility Name and Site Address

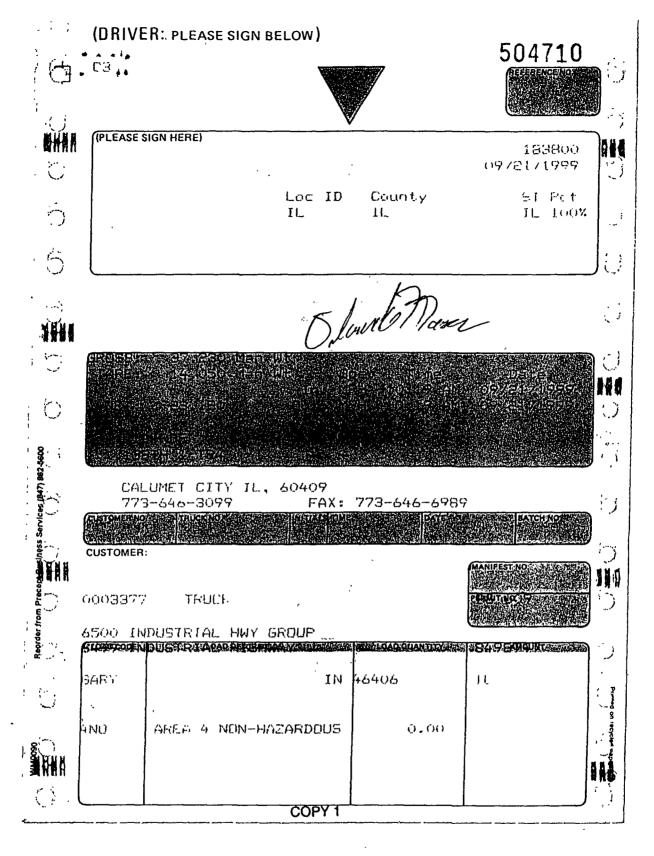
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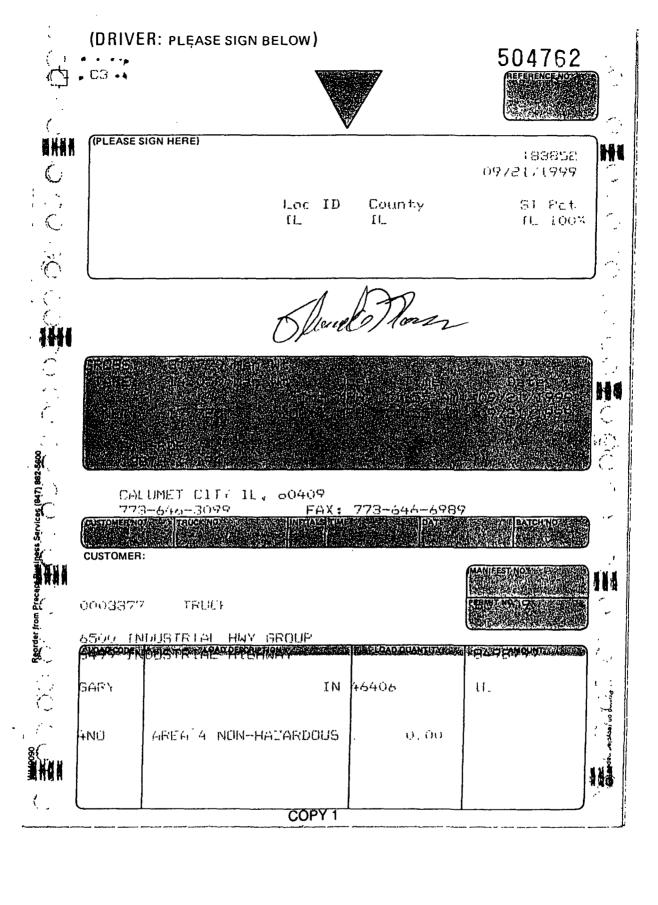
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) H. Facility's Phone (772) 12. Containers 13 Total Waste No. Type Quantity NOTHAZAROOUS BY DOT Ġ 104.57 Ε PETROLLEUM CONTAMINATED SOIL 00/157 N F R Δ K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above CLASS A PROFICE BG009 2500 15. Special Handling Instructions and Additional Information 1 LOAD 2 15 LOAD 3.15 LOADS 15 LOADS 15 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date 6500 Trade 18 Stynature Printed/Typed Name Month Day 17. Transporter 1 Acknowledgement of Receipt of Materials Signature Month Day 18. Transporter 2 Acknowledgement of Receipt of Materials Day ខ្ម Printed/Typed Name Signature Month 2U2 / 4Zb-Zb. 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed/Typed Name Month Day Year

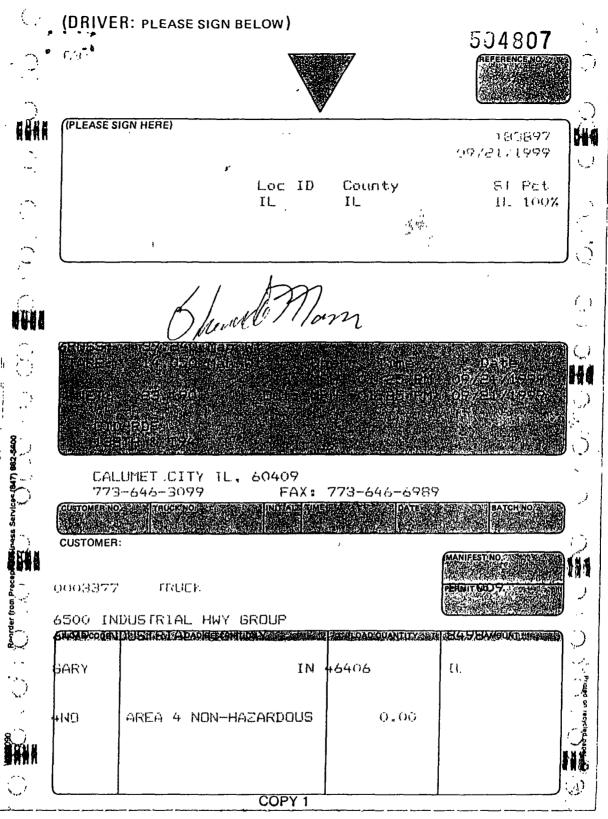
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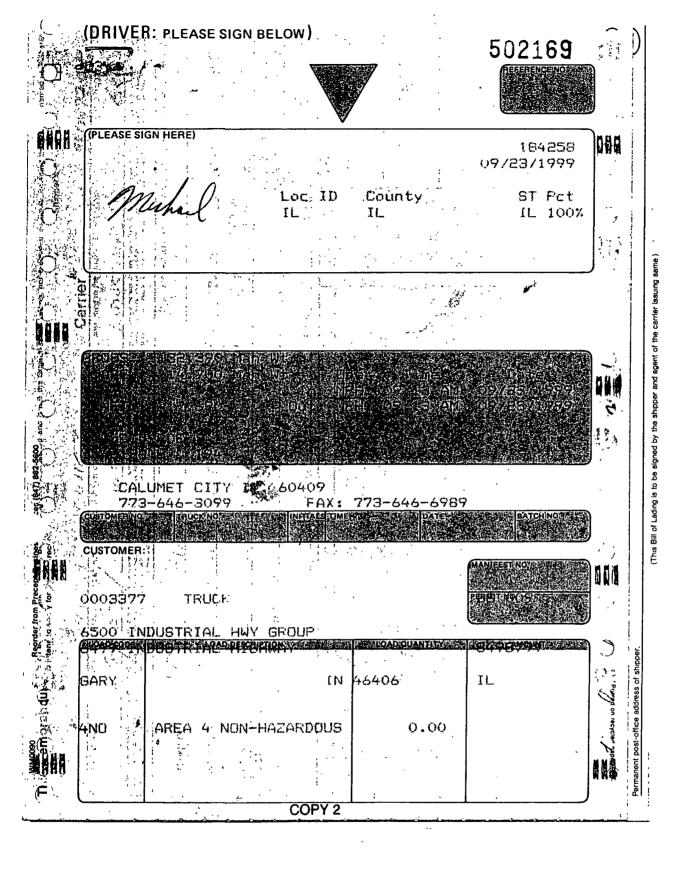
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FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 (L532-0610 PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 6-89) Form Approved OMB No 2050-0039 1. Generator's US EPA ID No. Manifest Information in the shaded areas is not required by Federal law, but is required by flimous law **UNIFORM HAZARDOUS** 2. Page 1 Document No IND040888992 kgoo'> WASTE MANIFEST 1 A. Illinois Manifest Document Number 3. Garaga production Hodiway Location If Different 9246699 FEE PAID IF APPLICABLE Suite 106 6499 Industrial Highway westmont, IL 60559 Gary, IN 46406 4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 B. Generator's IL ID Number Transporter's 5. Transporter 1 Company Name US EPA ID Number ID Number D. Transporter's Phone 1 849-1800 MAD039322250 Clean Harbors Env Services Inc US EPA ID Number E. Transporter's UPWOEL07430H 7, Transporter 2 Company Name 1040009865825 1) ART TRUCKING COMPONY F. Transporter's Phone (800) 541-8206 9. Designated Facility Name and Site Address 10 US EPA ID Number G. Facility's IL ID Number Spring Grove Resource Recovery 4879 Spring Grove Avenue Cincinnati, OH 45232 O H D 0 0 0 8 1 6 6 2 9 H. Facility's Phone (513) 681-5738 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Unit Total Waste No. Type Wt/Voi Quantity G a. NON DOT REGULATED MATERIAL (SLUDGE), NON DOT **EPA HW Number** CLASS A E HAZARDOUS, NONE, NONE 100 N 99955 E **EPA HW Number** b. R CR **EPA HW Number** 0 C. FS А **EPA HW Number** ď. K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above ار کا ۱۱a CH189751 10.13 ACCAN BURGARING PROCESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF SHARING ASSESSION OF there has a supplied to the property of the property of the second of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the prop 15. Special Handling Instructions and Additional Information wo# NB259980 TRUCK # 587 16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can affold. Date Year Month Day SOO IN OUSTRIO 73/00 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year 023100 18. Transporter 2 Acknowledgement of Receipt of Materials Date Day Year Printed/Typed Name Month IPH L. JMITH 19. Discrepancy Indication Space E. Should READ UPW0124009-OH 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this man noted in item 19 Date Day Signature Year Printed/Typed Name This Agency is authorized to reddy, pursuant to "lithous Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1821, that this information be submitted to the Agency Failure to profits information may result in a dvil penalty against the owner or operator not to exceed \$25,000 per day of violation Falsification of this information may result in a fine up to \$50, per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center

Clean Harbors has appropriate permits for & will accept the waste the generator is shipping.

COPY 1. TSD MAIL TO GENERATOR

		W/ (Co	ORM HAZARDOUS ASTE MANIFEST Intinuation Sheet)	21 Generator's US EPA ID No	o. Manifest	Document No.	]	Informat areas is law.	not requ	ired b	y Fed	
	23.		erator's Name 500 INDUSTRIAL H	IGHWAY GROUP			L: State M	anifest Docu	ıment N	lumbe	म श्रीह	. · · .
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П	26.	. Tran	sporter Company Nam	e I	27. US EPA ID I	Number	P. State Ti	ransporter's	ID. Sec	数字变之 -		es sign
$\ $	-					29. Conta	uners	orter's Phon 30. Total	31. Unit	· ***	- AR 16	
$\ $	28.	US E	DOT Description (Including F	Proper Shipping Name, Hazard (	Class, and ID Numb	er) No.	. 1	Total Quantity	Unit Wt/Vol	۷. چانون	aste N	lo.
	a.											
	b.		_									
	c.								1 1 2 1			
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			onal Descriptions for Materi				T Handlin	g Codes for	Wastes	Listed	Abov	6 22 62 1 2 2 2 2
<b>\</b>	32.	Spec	ial Handling Instructions an	d Additional Information								
TR	33.			ement of Receipt of Materials	To: -//						Date	
A N S			ted/Typed Name IRMA TYNDALL AGEN	T CHES!	Signature	- Igna	hell			10nth 198	Day D9	Year OO
P 0 B	_		<del></del>	ement of Receipt of Materials	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Jyru.					Date	
TRANSPORTER		Printe	ed/Typed Name		Signature				h	1onth	Day	Year
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Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

NET Job Number: 99.07582

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130 A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: Proj. #17094

Sample	Sample Description	Date	Date
Number		Taken	Received
537177 537178 537179 537180 538395 538396	B-1-3 Sludge B-2-4 Sludge B-1-4 Water B-2-3 Water B-1-4 B-2-3	07/15/1999 07/15/1999 07/15/1999 07/15/1999 07/21/1999	07/16/1999 07/16/1999 07/16/1999 07/16/1999 07/21/1999 07/21/1999

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:
Mary Kearson

Mary Pearson Project Manager



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 537177

Job No.: 99.07582

08/03/1999

Sample Description: B-1-3 Sludge Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:25 IEPA Cert. No. 100221

Parameter	Results	Units ,	Date of Analysis	Method PQL	Analyst	Batch No Prep/Run	. Analytical Method
pH, Non-Aqueous	6.06	units	07/20/1999	0.10	lmf	270	SW 9045B
Solids, Total	15.7	ŧ	07/21/1999	0.1	mws	285	2 SM 2540
TCLP Metals Extraction	leached		07/20/1999		tpl	978	SW 1311
Chromium, ICP	15,900	mg/kg dw	07/26/1999	13	jtt	1389 261	2 SW 6010B
Chromium, Hexavalent	<64	mg/kg dw	07/27/1999	6.4	jrr	23	SWII 3060
TCLP-Arsenic, ICP	<0.20	mg/L	07/23/1999	0.20	jtt	2585 4429	5 SW 6010B
TCLP-Barium, ICP	0.068	mg/L	07/23/1999	0.020	jtt	2585 4427	7 SW 6010B
TCLP-Cadmium, ICP	0.052	mg/L	07/23/1999	0 010	jtt	2585 4398	SW 6010B
TCLP-Chromium, ICP	0.153	mg/L	07/23/1999	0.040	jtt	2585 4407	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	07/23/1999	0.200	jtt	2585 4614	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	07/23/1999	0.0004	amc	1350 1223	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	07/23/1999	0.20	jtt	2585 4230	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	07/23/1999	0.040	amc	1237 1153	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		07/19/1999		усе	426	SW 3540C
PCBs 8082 NonAqueous							
PCB-1016	<1,600	ug/kg d₩	07/27/1999	320	skb	426 780	SW 8082
PCB-1221	<1,600	ug/kg dw	07/27/1999	320	skb	426 780	SW 8082
PCB-1232	<1,600	ug/kg dw	07/27/1999	320	skb	426 780	SW 8082
PCB-1242	<1,600	ug/kg dw	07/27/1999	320	skb	426 780	SW 8082
PCB-1248	<1,600	ug/kg dw	07/27/1999	320	skb	426 780	SW 8082
PCB-1254	<1,600	ug/kg dw	07/27/1999	320	skb	426 780	SW 8082
PCB-1260	2,040	ug/kg dw	07/27/1999	320	skb	426 780	SW 8082
Surr: Tetrachloroxylene (TCX)	116.0	*	07/27/1999	59-118	skb	426 780	SW 8082
Surr: Decachlorobiphenyl (DCB)	107.0	ŧ	07/27/1999	55-132	skb	426 780	SW 8082
PREP, BN Nonaqueous	extracted		07/20/1999		rap	515	SW 3550B
PREP, Acid Ext. Nonaqueous	extracted		07/20/1999		rap	515	SW 3550B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 537177

Job No.: 99.07582

Sample Description: B-1-3 Sludge

Proj. #17094

 Date Taken: 07/15/1999
 Date Received: 07/16/1999

 Time Taken: 14:25
 Time Received: 16:30

 IEPA Cert. No. 100221
 WDNR Cert. No. 999447130

Parameter .	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run	Analytical Method
ACID CMPDS - 8270 NONAQUEOUS	ELV							
4-Chloro-3-methylphenol	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
2-Chlorophenol	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
2,4-Dichlorophenol	<2,100	ug/kg dw	07/25/1999	2,100	p11	515	1448	SW 8270B
2,4-Dimethylphenol	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
2,4-Dinitrophenol	<10,200	ug/kg dw	07/25/1999	10,200	pll	515	1448	SW 8270B
2-Methyl-4,6-dinitrophenol	<10,200	ug/kg dw	07/25/1999	10,200	pll	515	1448	SW 8270B
2-Nitrophenol	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
4-Nitrophenol	<10,200	ug/kg dw	07/25/1999	10,200	pll	515	1448	SW 8270B
Pentachlorophenol	<10,200	ug/kg dw	07/25/1999	10,200	pll	515	1448	SW 8270B
Phenol	<2,100	ug/kg dw	07/25/1999	2,100	pl1	515	1448	SW 8270B
2,4,6-Trichlorophenol	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
BASE/NEUTRALS-8270 NONAQUEOUS	ELV							
Acenaphthene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Acenaphthylene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Anthracene	<2,100	ug/kg dw	07/25/1999	2,100	p11	515	1448	SW 8270B
Benzo(a)anthracene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Benzo(b) fluoranthene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Benzo(k)fluoranthene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Benzo(g,h,i)perylene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Benzo(a)pyrene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Benzyl butyl phthalate	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Bis(2-chloroethoxy)methane	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Bis(2-chloroethyl)ether	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Bis(2-chloroisopropyl)ether	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Bis(2-ethylhexyl)phthalate	7,010	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B

ELV : Elevated reporting limits due to matrix.

731



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

Sample Description:

B-1-3 Sludge Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:25

IEPA Cert. No. 100221

Date Received: 07/16/1999 Time Received: 16:30

WDNR Cert. No. 999447130

Sample No. : 537177

Job No.: 99.07582

08/03/1999

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run	Analytical Method
4-Bromophenyl phenyl ether	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
2-Chloronaphthalene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
4-Chlorophenyl phenyl ether	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Chrysene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Dibenzo(a,h)anthracene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Di-n-butyl phthalate	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
1,2-Dichlorobenzene	6,050	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
1,3-Dichlorobenzene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
1,4-Dichlorobenzene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
3,3'-Dichlorobenzidine	<4,200	ug/kg dw	07/25/1999	4,200	p11	515	1448	SW 8270B
Diethyl phthalate	<2,100	ug/kg dw	07/25/1999	2,100	pli	515	1448	SW 8270B
Dimethyl phthalate	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
2,4-Dinitrotoluene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
2,6-Dinitrotoluene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Di-n-octyl phthalate	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Fluoranthene	2,870	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Fluorene	8,920	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Hexachlorobenzene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Hexachlorobutadiene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Hexachlorocyclopentadiene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Hexachloroethane	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Indeno(1,2,3-cd)pyrene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Isophorone	4,270	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Naphthalene	2,930	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
Nitrobenzene	<2,100		07/25/1999	2,100	pll	515	1448	SW 8270B
N-Nitrosodimethylamine	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B
N-Nitrosodi-n-propylamıne	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW 8270B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 537177

Job No.: 99.07582

Sample Description:

B-1-3 Sludge Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:25 Date Received: 07/16/1999 Time Received: 16:30

WDNR Cert. No. 999447130 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run		alytical Method
N-Nitrosodiphenylamine	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW	8270B
Phenanthrene	26,100	ug/kg dw	07/26/1999	2,100	pll	515	1451	SW	8270B
Pyrene	2,290	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW	8270B
1,2,4-Trichlorobenzene	<2,100	ug/kg dw	07/25/1999	2,100	pll	515	1448	SW	8270B
Surr: Phenol-d6	78.0	*	07/25/1999	24-113	pll	515	1448	SW	8270B
Surr: 2-Fluorophenol	73.0	ŧ	07/25/1999	25-121	pll	515	1448	SW	8270B
Surr: Nitrobenzene-d5	84.0	*	07/25/1999	23-120	pll	515	1448	SW	8270B
Surr: 2-Fluorobiphenyl	88.0	ŧ	07/25/1999	30-115	pll	515	1448	SW	8270B
Surr: Terphenyl-d14	105.0	ŧ	07/25/1999	18-137	pll	515	1448	SW	8270B
Surr: 2,4,6-Tribromophenol	113.0	1	07/25/1999	19-122	pll	515	1448	SW	8270B
VOLATILES - 8260 NonAqueous	ELV								
Acetone	<62,000	ug/kg dw	07/29/1999	637	pll		907	SW	8260A
Acrylonitrile	<31,000	ug/kg dw	07/29/1999	320	pll		907	SW	8260A
Benzene	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Bromobenzene	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Bromochloromethane	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Bromodichloromethane	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Bromoform	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Bromomethane	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
n-Butylbenzene	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
sec-Butylbenzene	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
tert-Butylbenzene	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Carbon tetrachloride	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Chlorobenzene	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Chlorodibromomethane	<3,100	ug/kg dw	07/29/1999	32	pll		907	SW	8260A
Chloroethane	<3,100	ug/kg dw	07/29/1999	32	p11		907	SW	8260A

ELV : Elevated reporting levels due to matrix.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Westmont, IL 60559

Sample Description:

B-1-3 Sludge

Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:25

IEPA Cert. No. 100221

08/03/1999

Sample No. : 537177

Job No.: 99.07582

Date Received: 07/16/1999

Time Received: 16:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chloroform	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
Chloromethane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
2-Chlorotoluene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
4-Chlorotoluene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,2-Dibromo-3-chloropropane	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
1,2-Dibromoethane (EDB)	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Dibromomethane	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
1,2-Dichlorobenzene	7,010	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,3-Dichlorobenzene	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
1,4-Dichlorobenzene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Dichlorodifluoromethane	<3,100	ug/kg dw	07/29/1999	32	<b>p</b> 11	907	SW 8260A
1,1-Dichloroethane	10,800	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,2-Dichloroethane	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
1,1-Dichloroethene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
cis-1,2-Dichloroethene	89,200	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
trans-1,2-Dichloroethene	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
1,2-Dichloropropane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,3-Dichloropropane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
2,2-Dichloropropane	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
1,1-Dichloropropene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
cis-1,3-Dichloropropene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
trans-1,3-Dichloropropene	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
Ethylbenzene	21,700	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
2-Hexanone	<62,000	ug/kg dw	07/29/1999	637	pll	907	SW 8260A
Hexachlorobutadiene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Iodomethane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Isopropylbenzene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A



Mr. David Pyles KRIKAU, PYLĒS, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 537177

Job No.: 99.07582

B-1-3 Sludge Proj. #17094 Sample Description:

Date Taken: 07/15/1999
Time Taken: 14:25 Date Received: 07/16/1999 Time Received: 16:30 WDNR Cert. No. 999447130 IEPA Cert. No. 100221

Parameter	Results	Units	Date of	Method	Analyst	Batch No.	Analytical
			Analysıs	PQL		Prep/Run	Method
p-Isopropyltoluene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
• • • •	<62,000		07/29/1999	637	-	907	SW 8260A
Methyl Ethyl Ketone	•	ug/kg dw			pl1		
Methyl Isobutyl Ketone	<62,000	ug/kg dw	07/29/1999	637	pll	907	SW 8260A
Methylene Chloride	<31,000	ug/kg dw	07/29/1999	320	pll	907	SW 8260A
Methyl-tert-butyl ether	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Naphthalene	7,010	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
n-propylbenzene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Styrene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,1,1,2-Tetrachloroethane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,1,2,2-Tetrachloroethane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Tetrachloroethene	21,700	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Toluene	46,500	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,2,3-Trichlorobenzene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,2,4-Trichlorobenzene	<3,100	ug/kg dw	07/29/1999	32	p11	907	SW 8260A
1,1,1-Trichloroethane	53,500	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,1,2-Trichloroethane	7,010	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Trichloroethene	191,000	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Trichlorofluoromethane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,2,3-Trichloropropane	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,2,4-Trimethylbenzene	7,640	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
1,3,5-Trimethylbenzene	<3,100	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Vinyl chloride	4,780	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Xylenes	89,200	ug/kg dw	07/29/1999	32	pll	907	SW 8260A
Surr: Dibromofluoromethane	108.0	*	07/29/1999	81-129	pll	907	SW 8260A
Surr: Toluene-d8	104.0	ŧ	07/29/1999	74-129	pll	907	SW 8260A
Surr: 4-Bromofluorobenzene	94.0	¥	07/29/1999	70-130	pll	907	SW 8260A



Page 7 of 64



Mr. David Pyles

KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

Sample Description:

B-2-4 Sludge

Proj. #17094

Date Taken: 07/15/1999

Time Taken: 14:45 IEPA Cert. No. 100221 Date Received: 07/16/1999 Time Received: 16:30

WDNR Cert. No. 999447130

Sample No. : 537178

Job No.: 99.07582

08/03/1999

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
pH, Non-Aqueous	5.22	units	07/20/1999	0.10	1mf		270	SW 9045B
Solids, Total	24.9	*	07/21/1999	0.1	mws		2852	SM 2540
TCLP Metals Extraction	leached		07/20/1999		tpl		978	SW 1311
Chromium, ICP	1,120	mg/kg dw	07/26/1999	8 0	jtt	1389	2612	SW 6010B
Chromium, Hexavalent	<40	mg/kg dw	07/27/1999	4.0	ŋrr		23	SWII 3060
TCLP-Arsenic, ICP	<0.20	mg/L	07/23/1999	0.20	jtt	2585	4425	SW 6010B
TCLP-Barium, ICP	0.115	mg/L	07/23/1999	0.020	jtt	2585	4427	SW 6010B
TCLP-Cadmium, ICP	<0.010	mg/L	07/23/1999	0.010	jtt	2585	4398	SW 6010B
TCLP-Chromium, ICP	<0.040	mg/L	07/23/1999	0.040	jtt	2585	4407	SW 6010B
TCLP-Lead, ICP	0.336	mg/L	07/23/1999	0.200	jtt	2585	4614	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	07/23/1999	0.0004	amc	1390	1223	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	07/23/1999	0.20	jtt	2585	4230	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	07/23/1999	0.040	amc	1237	1153	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		07/19/1999		јсе	426		SW 3540C
PCBs 8082 NonAqueous	ELV							
PCB-1016	<4,000	ug/kg dw	07/27/1999	200	skb	426	780	SW 8082
PCB-1221	<4,000	ug/kg dw	07/27/1999	200	skb	426	780	SW 8082
PCB-1232	<4,000	ug/kg dw	07/27/1999	200	skb	426	780	SW 8082
PCB-1242	<4,000	ug/kg dw	07/27/1999	200	skb	426	780	SW 8082
PCB-1248	<4,000	ug/kg dw	07/27/1999	200	skb	426	780	SW 8082
PCB-1254	<4,000	ug/kg dw	07/27/1999	200	skb	426	780	SW 8082
PCB-1260	<4,000	ug/kg dw	07/27/1999	200	skb	426	780	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out		07/27/1999	59-118	skb	426	780	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		07/27/1999	55-132	skb	426	780	SW 8082
PREP, BN Nonaqueous	extracted		07/20/1999		rap	515		SW 3550B
PREP, Acid Ext. Nonaqueous	extracted		07/20/1999		rap	515		SW 3550B

ELV : Elevated reporting limits due to matrix.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No.: 537178

Job No.: 99.07582

Sample Description:

B-2-4 Sludge Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:45 IEPA Cert. No. 100221

Date Received: 07/16/1999 Time Received: 16:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
		•						
ACID CMPDS - 8270 NONAQUEOUS	ELV							
4-Chloro-3-methylphenol	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
2-Chlorophenol	<27,000	ug/kg dw	07/25/1999	1,330	p11	515	1448	SW 8270B
2,4-Dichlorophenol	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
2,4-Dimethylphenol	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
2,4-Dinitrophenol	<130,000	ug/kg dw	07/25/1999	6,430	pll	515	1448	SW 8270B
2-Methyl-4,6-dinitrophenol	<130,000	ug/kg dw	07/25/1999	6,430	pll	515	1448	SW 8270B
2-Nitrophenol	<27,000	ug/kg dw	07/25/1999	1,330	pl1	515	1448	SW 8270B
4-Nitrophenol	<130,000	ug/kg dw	07/25/1999	6,430	p11	515	1448	SW 8270B
Pentachlorophenol	<130,000	ug/kg dw	07/25/1999	6,430	pll	515	1448	SW 8270B
Phenol	<27,000	ug/kg dw	07/25/1999	1,330	p11	515	1448	SW 8270B
2,4,6-Trichlorophenol	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
BASE/NEUTRALS-8270 NONAQUEOUS	ELV							
Acenaphthene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Acenaphthylene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Anthracene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Benzo(a)anthracene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Benzo(b)fluoranthene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Benzo(k)fluoranthene	<27,000	ug/kg dw	07/25/1999	1,330	p11	515	1448	SW 8270B
Benzo(g,h,i)perylene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Benzo(a)pyrene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Benzyl butyl phthalate	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Bis(2-chloroethoxy)methane	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Bis(2-chloroethyl)ether	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Bis(2-chloroisopropyl)ether	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Bis(2-ethylhexyl)phthalate	32,100	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B

ELV : Elevated reporting levels due to matrix.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 537178

Job No.: 99.07582

08/03/1999

Sample Description: B-2-4 Sludge Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:45 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run	Analytical Method
4-Bromophenyl phenyl ether	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
2-Chloronaphthalene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
4-Chlorophenyl phenyl ether	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Chrysene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Dibenzo(a,h)anthracene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Di-n-butyl phthalate	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
1,2-Dichlorobenzene	34,900	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
1,3-Dichlorobenzene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
1,4-Dichlorobenzene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
3,3'-Dichlorobenzidine	<53,000	ug/kg dw	07/25/1999	2,650	pll	515	1448	SW 8270B
Diethyl phthalate	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Dimethyl phthalate	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
2,4-Dinitrotoluene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
2,6-Dinitrotoluene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Di-n-octyl phthalate	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Fluoranthene	<27,000	ug/kg dw	07/25/1999	1,330	p11	515	1448	SW 8270B
Fluorene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Hexachlorobenzene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Hexachlorobutadiene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Hexachlorocyclopentadiene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Hexachloroethane	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Indeno(1,2,3-cd)pyrene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Isophorone	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Naphthalene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
Nitrobenzene	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
N-Nitrosodimethylamine	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B
N-Nitrosodi-n-propylamine	<27,000	ug/kg dw	07/25/1999	1,330	pll	515	1448	SW 8270B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 08/03/1999

Sample No. : 537178

Job No.: 99.07582

Sample Description:

B-2-4 Sludge Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:45

IEPA Cert. No. 100221

Date Received:

Date Received: 07/16/1999 Time Received: 16:30 WDNR Cert. No. 999447130

Parameter Results Units Date of Method Analyst Batch No. Analytical Prep/Run Analysis POL Method N-Nitrosodiphenylamine <27,000 ug/kg dw 07/25/1999 1,330 pll 515 1448 SW 8270B <27,000 ug/kg dw 07/25/1999 1,330 515 1448 SW 8270B Phenanthrene Pyrene <27,000 ug/kg dw 07/25/1999 1,330 pll 515 1448 SW 8270B <27,000 pll 1,2,4-Trichlorobenzene ug/kg dw 07/25/1999 1,330 515 1448 SW 8270B Surr: Phenol-d6 07/25/1999 Diluted out 24-113 p11 515 1448 SW 8270B Diluted out Surr: 2-Fluorophenol 07/25/1999 25-121 pll 515 1448 SW 8270B Surr: Nitrobenzene-d5 Diluted out 07/25/1999 23-120 pll 515 1448 SW 8270B Surr: 2-Fluorobiphenyl Diluted out 07/25/1999 30-115 pl1515 1448 SW 8270B Diluted out 07/25/1999 18-137 Surr: Terphenyl-d14 pll 1448 SW 8270B Surr: 2,4,6-Tribromophenol Diluted out 07/25/1999 19-122 pll 515 1448 SW 8270B VOLATILES - 8260 NonAqueous <8,000 ug/kg dw 07/29/1999 Acetone 402 pll 907 SW 8260A pll <4,000 ug/kg dw 07/29/1999 200 907 SW 8260A Acrylonitrile <402 pllBenzene ug/kg dw 07/29/1999 20 907 SW 8260A Bromobenzene <400 ug/kg dw 07/29/1999 20 pll 907 SW 8260A Bromochloromethane <400 ug/kg dw 07/29/1999 20 907 SW 8260A pll Bromodichloromethane <402 ug/kg dw 07/29/1999 p11 907 SW 8260A Bromoform <402 ug/kg dw 07/29/1999 20 907 SW 8260A pll Bromomethane <402 ug/kg dw 07/29/1999 SW 8260A 20 907 pll n-Butylbenzene <400 ug/kg dw 07/29/1999 20 pll 907 SW 8260A sec-Butylbenzene <400 ug/kg dw 07/29/1999 20 p11 907 SW 8260A tert-Butylbenzene <400 ug/kg dw 07/29/1999 20 p11 907 SW 8260A Carbon tetrachloride <402 ug/kg dw 07/29/1999 20 11q907 SW 8260A Chlorobenzene <402 ug/kg dw 07/29/1999 20 pll 907 SW 8260A Chlorodibromomethane <402 ug/kg dw 07/29/1999 20 pll 907 SW 8260A Chloroethane <400 ug/kg dw 07/29/1999 20 pll 907 SW 8260A

ELV : Elevated reporting limits due to matrix.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 537178

Job No.: 99.07582

Sample Description:

B-2-4 Sludge Proj. #17094

Date Taken: 07/15/1999

Time Taken: 14:45
IEPA Cert. No. 100221

Date Received: 07/16/1999 Time Received: 16:30

Time Received: 16:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	_	Batch No. Prep/Run	Analytical Method
Chloroform	2,570	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Chloromethane	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
2-Chlorotoluene	<400	ug/kgˈdw	07/29/1999	20	p11	907	SW 8260A
4-Chlorotoluene	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,2-Dibromo-3-chloropropane	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,2-Dibromoethane (EDB)	<400	ug/kg dw	07/29/1999	20	<b>p</b> 11	907	SW 8260A
Dibromomethane	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,2-Dichlorobenzene	4,420	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,3-Dichlorobenzene	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,4-Dichlorobenzene	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Dichlorodifluoromethane	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,1-Dichloroethane	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,2-Dichloroethane	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,1-Dichloroethene	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
cis-1,2-Dichloroethene	<400	ug/kg dw	07/29/1999	20	p11	907	SW 8260A
trans-1,2-Dichloroethene	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,2-Dichloropropane	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,3-Dichloropropane	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
2,2-Dichloropropane	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,1-Dichloropropene	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
cis-1,3-Dichloropropene	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
trans-1,3-Dichloropropene	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Ethylbenzene	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
2-Hexanone	<8,000	ug/kg dw	07/29/1999	402	pll	907	SW 8260A
Hexachlorobutadiene	<803	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Iodomethane	<400	ug/kg dw	07/29/1999	20	p11	907	SW 8260A
Isopropylbenzene	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 08/03/1999

Sample No. : 537178

Job No.: 99.07582

Sample Description:

B-2-4 Sludge Proj. #17094

Date Taken: 07/15/1999 Time Taken: 14:45 IEPA Cert. No. 100221 Date Received: 07/16/1999 Time Received: 16:30

Time Received: 16:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
p-Isopropyltoluene	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Methyl Ethyl Ketone	<8,000	ug/kg dw	07/29/1999	402	pll	907	SW 8260A
Methyl Isobutyl Ketone	<8,000	ug/kg dw	07/29/1999	402	pll	907	SW 8260A
Methylene Chloride	<4,020	ug/kg dw	07/29/1999	200	pll	907	SW 8260A
Methyl-tert-butyl ether	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Naphthalene	1,690	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
n-propylbenzene	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Styrene	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,1,1,2-Tetrachloroethane	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,1,2,2-Tetrachloroethane	<402	ug/kg dw	07/29/1999	20	p11	907	SW 8260A
Tetrachloroethene	3,530	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Toluene	1,530	ug/kg dw	07/29/1999	20	p11	907	SW 8260A
1,2,3-Trichlorobenzene	<803	ug/kg dw	07/29/1999	20	p11	907	SW 8260A
1,2,4-Trichlorobenzene	<803	ug/kg dw	07/29/1999	20	p11	907	SW 8260A
1,1,1-Trichloroethane	1,200	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,1,2-Trichloroethane	<402	ug/kg dw	07/29/1999	20	pll	` 907	SW 8260A
Trichloroethene	5,620	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Trichlorofluoromethane	<402	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,2,3-Trichloropropane	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
1,2,4-Trimethylbenzene	643	ug/kg dw	07/29/1999	20	pl1	907	SW 8260A
1,3,5-Trimethylbenzene	<400	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Vinyl chloride	<402	ug/kg dŵ	07/29/1999	20	p11	907	SW 8260A
Xylenes	1,120	ug/kg dw	07/29/1999	20	pll	907	SW 8260A
Surr: Dibromofluoromethane	110.0	*	07/29/1999	81-129	pll	907	SW 8260A
Surr: Toluene-d8	102.0	*	07/29/1999	74-129	pll	907	SW 8260A
Surr: 4-Bromofluorobenzene	94.0	ŧ	07/29/1999	70-130	pll	907	SW 8260A



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ &

**ASSOCIATES** 

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 537179

Job No.: 99.07582

Sample Description: B-1-4 Water

Date Taken: 07/15/1999
Time Taken: 14:25
IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batcl Prep		Analytical Method
Chromium, hexavalent	<0.10	mg/L	07/16/1999	0.01	jrr		1520	SW 7196
рн	7.05	units	07/16/1999	0.10	mws		1996	EPA 150.1
Prep, PCBs 8082 Aqueous PCBs 8082 Aqueous	COMPLETE		07/19/1999		јсе	433		SW 3510C
PCB-1016	<0 5	ug/L	07/27/1999	0 5	skb	433	780	SW 8082
PCB-1221	<0.5	ug/L	07/27/1999	0 5	skb	433	780	SW 8082
PCB-1232	<0.5	ug/L	07/27/1999	0.5	skb	433	780	SW 8082
PCB-1242	<0.5	ug/L	07/27/1999	0.5	skb	433	780	SW 8082
PCB-1248	<0.5	ug/L	07/27/1999	0.5	skb	433	780	SW 8082
PCB-1254	<0.5	ug/L	07/27/1999	0.5	skb	433	780	SW 8082
PCB-1260	<0.5	ug/Ļ	07/27/1999	0.5	skb	433	780	SW 8082
Surr: Tetrachloroxylene (TCX)	86.6	¥	07/27/1999	45-110	skb	433	780	SW 8082
Surr: Decachlorobiphenyl (DCB)	84.8	ł	07/27/1999	32-110	skb	433	780	SW 8082



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 537180

Job No.: 99.07582

Sample Description:

B-2-3 Water Proj. #17094

Date Taken: 07/15/1999

Time Taken: 14:45
IEPA Cert. No. 100221

Date Received: 07/16/1999 Time Received: 16:30

Time Received: 16:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Prep, PCBs 8082 Aqueous	COMPLETE		07/19/1999		jce	433	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.5	ug/L	07/27/1999	0 5	skb	433 780	SW 8082
PCB-1221	<0 5	ug/L	07/27/1999	0.5	skb	433 780	SW 8082
PCB-1232	<0.5	ug/L	07/27/1999	0.5	skb	433 780	SW 8082
PCB-1242	<0.5	ug/L	07/27/1999	0.5	skb	433 780	SW 8082
PCB-1248	<0.5	ug/L	07/27/1999	0.5	skb	433 780	SW 8082
PCB-1254	<0.5	ug/L	07/27/1999	0 5	skb	433 780	SW 8082
PCB-1260	<0.5	ug/L	07/27/1999	0.5	skb	433 780	SW 8082
Surr: Tetrachloroxylene (TCX)	97.4	*	07/27/1999	45-110	skb	433 780	SW 8082
Surr: Decachlorobiphenyl (DCB)	47.5	*	07/27/1999	32-110	skb	433 780	SW 8082



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 538395

Job No.: 99.07582

Sample Description: B-1-4

Proj. #17094

Date Taken: 07/21/1999

Time Taken: 10:45 IEPA Cert. No. 100221 Date Received: 07/21/1999 Time Received: 16:25

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, ICP	1.88	mg/L	07/28/1999	0.040	jtt	2592 4420	SW 6010B
TCLP Metals Extraction	leached		07/27/1999		tpl	990	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	07/28/1999	0.20	jtt	2593 4437	SW 6010B
TCLP-Barium, ICP	0.154	mg/L	07/28/1999	0.020	jtt	2593 4438	SW 6010B
TCLP-Cadmium, ICP	<0.010	mg/L	07/28/1999	0.010	jtt	2593 4411	SW 6010B
TCLP-Chromium, ICP	<0.040	mg/L	07/28/1999	0.040	jtt	2593 4419	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	07/28/1999	0.200	jtt	2593 4625	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	07/28/1999	0.0004	amc	1353 1230	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	07/28/1999	0.20	jtt	2593 4242	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	07/28/1999	0.040	amc	1240 1160	SW 7760
PREP, ACID EXT. AQUEOUS	extracted		07/27/1999		tls	684	SW 3510C
PREP, BN AQUEOUS	extracted		07/27/1999		tls	684	SW 3510C
ACID CMPDS - 8270B AQUEOUS							
4-Chloro-3-methylphenol	<11	ug/L	07/29/1999	10	pll	684 2019	SW 8270B
2-Chlorophenol	<11	ug/L	07/29/1999	10	pll	684 2019	SW 8270B
2,4-Dichlorophenol	<11	ug/L	07/29/1999	10	pll	684 2019	SW 8270B
2,4-Dimethylphenol	<11	ug/L	07/29/1999	10	pll	684 2019	SW 8270B
2,4-Dinitrophenol	<55	ug/L	07/29/1999	50	pli	684 2019	SW 8270B
2-Methyl-4,6-dinitrophenol	<55	ug/L	07/29/1999	50	p11	684 2019	SW 8270B
2-Nitrophenol	<11	ug/L	07/29/1999	10	pll	684 2019	SW 8270B
4-Nitrophenol	<55	ug/L	07/29/1999	50	pll	684 2019	SW 8270B
Pentachlorophenol	<\$5	ug/L	07/29/1999	50	pll	684 2019	SW 8270B
Phenol	<11	ug/L	07/29/1999	10	pll	684 2019	SW 8270B
2,4,6-Trichlorophenol	<11	ug/L	07/29/1999	10	pll	684 2019	SW 8270B
Surr: Phenol-d6	43.8	ŧ	07/29/1999	10-94	pll	684 2019	SW 8270B
Surr: 2-Fluorophenol	58.0	ŧ	07/29/1999	21-100	pll	684 2019	SW 8270B



Mr. David Pyles

08/03/1999

KRIKAU, PYLĖS, RYSIEWICZ &

Sample No. : 538395

ASSOCIATES 414 Plaza Drive Ste. 106

Job No.: 99.07582

Westmont, IL 60559

Sample Description: B-1-4

Proj. #17094

Date Taken: 07/21/1999 Time Taken: 10:45 IEPA Cert. No. 100221

Parameter	Results	Units	Units Date of Method Ana Analysis PQL		Analyst	st Batch No. Prep/Run		Analytical Method
Surr: 2,4,6-Tribromophenol	83.5	*	07/29/1999	10-123	pll	684	2019	SW 8270B
BASE/NEUTRALS - 8270B AQUEOUS								
Acenaphthene	<11	ug/L	07/29/1999	10	p11	684	2019	SW 8270B
Acenaphthylene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Anthracene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(a)anthracene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(b) fluoranthene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(k)fluoranthene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(g,h,1)perylene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(a)pyrene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzyl butyl phthalate	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Bis (2-chloroethoxy) methane	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Bis(2-chloroethyl)ether	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Bis(2-chloroisopropyl)ether	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Bis(2-ethylhexyl)phthalate	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
4-Bromophenyl phenyl ether	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
2-Chloronaphthalene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
4-Chlorophenyl phenyl ether	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Chrysene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Dibenzo(a,h)anthracene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Di-n-butyl phthalate	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,2-Dichlorobenzene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,3-Dichlorobenzene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,4-Dichlorobenzene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
3,3'-Dichlorobenzidine	<22	ug/L	07/29/1999	20	p11	684	2019	SW 8270B
Diethyl phthalate	<11	ug/L	07/29/1999	10	p11	684	2019	SW 8270B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 538395

Job No.: 99.07582

Sample Description: B-1-4

Proj. #17094

Date Taken: 07/21/1999 Time Taken: 10:45

IEPA Cert. No. 100221

Parameter	Results	Units	Date of	Method	Analyst	Bate	ch No.	Analytical
			Analysis	PQL		Prep	/Run	Method
Dimethyl phthalate	<11	uq/L	07/29/1999	10	pll	684	2019	SW 8270B
2,4-Dinitrotoluene	<11	ug/L	07/29/1999	10	p11	684	2019	SW 8270B
•			• •		-			
2,6-Dinitrotoluene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Di-n-octyl phthalate	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Fluoranthene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Fluorene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Hexachlorobenzene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Hexachlorobutadiene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Hexachlorocyclopentadiene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Hexachloroethane	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Indeno(1,2,3-cd)pyrene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Isophorone	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Naphthalene	<11	ug/L	07/29/1999	10	pl1	684	2019	SW 8270B
Nitrobenzene	<11	ug/L	07/29/1999	10	p11	684	2019	SW 8270B
N-Nitrosodimethylamine	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
N-Nitrosodi-n-propylamıne	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
N-Nitrosodiphenylamine	<11	ug/L	07/29/1999	10	p11	684	2019	SW 8270B
Phenanthrene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Pyrene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,2,4-Trichlorobenzene	<11	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Surr: Nitrobenzene-d5	89.4	ŧ	07/29/1999	35-114	pll	684	2019	SW 8270B
Surr: 2-Fluorobiphenyl	75.2	ł	07/29/1999	43-116	pll	684	2019	SW 8270B
Surr: Terphenyl-d14	77.4	ł	07/29/1999	33-141	pll	684	2019	SW 8270B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & **ASSOCIATES** 

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No.: 538395

Job No.: 99.07582

Sample Description:

B-1-4 Proj. #17094

Date Taken: 07/21/ Time Taken: 10:45 07/21/1999 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8260 Aqueous							
Acetone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Acrylonitrile	<5.0	ug/L	07/28/1999	5.0	mjo	774	SW 8260A
Benzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromochloromethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromodichloromethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromoform	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromomethane	<1.0	ug/L	07/28/1999	1.0	πjo	774	SW 8260A
n-butylbenzene	<1 0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
sec-butylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
tert-butylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Carbon Disulfide	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Carbon tetrachloride	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chlorodibromomethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chloroethane -	6.8	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chloroform	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chloromethane	<2.0	ug/L	07/28/1999	2.0	mjo	774	SW 8260A
2-Chlorotoluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
4-Chlorotoluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dibromo-3-chloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dibromoethane (EDB)	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Dibromomethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,3-Dichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,4-Dichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 538395

Job No.: 99.07582

Sample Description: B-1-4

Proj. #17094

Date Taken: 07/21/1999
Time Taken: 10:45 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Dichlorodifluoromethane	<1.0	ug/L	07/28/1999	1.0	m7O	774	SW 8260A
	12		07/28/1999		-	774	SW 8260A
1,1-Dichloroethane		ug/L		1.0	mjo 		
1,2-Dichloroethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1-Dichloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
cis-1,2-Dichloroethene	9.2	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
trans-1,2-Dichloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dichloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,3-Dichloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
2,2-Dichloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1-Dichloropropene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
cis-1,3-Dichloropropene	<1.0	ug/L 🥳	07/28/1999	1.0	mjo	774	SW 8260A
trans-1,3-Dichloropropene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Ethylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
2-Hexanone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Hexachlorobutadiene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Iodomethane	<1.0	ug/L	07/28/1999	1.0	myo	774	SW 8260A
Isopropylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
p-Isopropyltoluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Methyl Ethyl Ketone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Methyl Isobutyl Ketone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Methylene chloride	<10	ug/L	07/28/1999	10	mjo	774	SW 8260A
Methyl-tert-butyl ether	<2.0	ug/L	07/28/1999	2.0	mjo	774	SW 8260A
Naphthalene	7 5	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
n-Propylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Styrene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1,1,2-Tetrachloroethane	<1.0	ug/L	07/28/1999	1.0	m70	774	SW 8260A
1,1,2.2-Tetrachloroethane	<1.0	-	07/28/1999		•	774	SW 8260A
1,1,2,2-Tetrachioroechane	<1.0	ug/L	01/28/1333	1.0	mjo	//4	S# 826UA



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 538395

Job No.: 99.07582

Sample Description: B-1-4

Proj. #17094

Date Taken: 07/21/1999 Time Taken: 10:45

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Tetrachloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Toluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2,3-Trichlorobenzene	<1.0	ug/L	07/28/1999	1 0	mjo	774	SW 8260A
1,2,4-Trichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1,1-Trichloroethane	3.8	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1,2-Trichloroethane	1.2	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Trichloroethene	5.4	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Trichlorofluoromethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2,3-Trichloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2,4-Trimethylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,3,5-Trimethylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Vinyl chloride	8.9	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
o-Xylene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
m&p-Xylene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Xylenes (total)	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Surr: Dibromofluoromethane	101.2	*	07/28/1999	75-130	mjo	774	SW 8260A
Surr: Toluene-d8	96.6	ŧ	07/28/1999	85-117	mjo	774	SW 8260A
Surr: 4-Bromofluorobenzene	94.2	*	07/28/1999	80-116	mjo	774	SW 8260A



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 538396

Job No.: 99.07582

Sample Description: B-2-3

Proj. #17094

Date Taken: 07/21/1999
Time Taken: 11:10
Time Received: 07/21/1999
Time Received: 16:25
IEPA Cert. No. 100221
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run		alytical Method
Chromium, hexavalent	<10 *	mg/Kg	07/27/1999	0.01	jrr		1525	SW	7196
рн	6.56	units	07/22/1999	0.10	mws		2004	EPA	150.1
Chromium, ICP	0.100	mg/L	07/28/1999	0.040	jtt	2592	4420	S₩	6010B
TCLP Metals Extraction	leached		07/27/1999		tpl		990	SW	1311
TCLP-Arsenic, ICP	<0.20	mg/L	07/28/1999	0.20	jtt	2593	4437	SW	6010B
TCLP-Barium, ICP	<0.020	mg/L	07/28/1999	0.020	jtt	2593	4438	SW	6010B
TCLP-Cadmium, ICP	<0.010	mg/L	07/28/1999	0.010	jtt	2593	4411	SW	6010B
TCLP-Chromium, ICP	<0.040	mg/L	07/28/1999	0.040	jtt	2593	4419	SW	6010B
TCLP-Lead, ICP	<0.200	mg/L	07/28/1999	0.200	jtt	2593	4625	SW	6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	07/28/1999	0.0004	amc	1353	1230	SW	7470A
TCLP-Selenium, ICP	<0.20	mg/L	07/28/1999	0.20	jtt	2593	4242	SW	6010B
TCLP-Silver, AA	<0.040	mg/L	07/28/1999	0.040	amc	1240	1160	SW	7760
PREP, ACID EXT. AQUEOUS	extracted		07/27/1999		tls	684		SW	3510C
PREP, BN AQUEOUS	extracted		07/27/1999		tls	684		SW	3510C
ACID CMPDS - 8270B AQUEOUS									
4-Chloro-3-methylphenol	<10	ug/L	07/29/1999	10	pll	684	2019	SW	8270B
2-Chlorophenol	<10	ug/L	07/29/1999	10	pll	684	2019	SW	8270B
2,4-Dichlorophenol	<10	ug/L ,	07/29/1999	10	pll	684	2019	SW	8270B
2,4-Dimethylphenol	<10	ug/L	07/29/1999	10	pll	684	2019	SW	8270B
2,4-Dinitrophenol	<50	ug/L	07/29/1999	50	pll	684	2019	SW :	8270B
2-Methyl-4,6-dinitrophenol	<50	ug/L	07/29/1999	50	pll	684	2019	SW	8270B
2-Nitrophenol	<10	ug/L	07/29/1999	10	pll	684	2019	SW	8270B
4-Nitrophenol	<50	ug/L	07/29/1999	50	pll	684	2019	SW 8	8270B
Pentachlorophenol	<50	ug/L	07/29/1999	50	pll	684	2019	SW 8	8270B
Phenol	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8	3270B
2,4,6-Trichlorophenol	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8	3270B

^{* :} Due to high sediment levels the sample was processed as a solid.



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106

08/03/1999

Sample No. : 538396

Job No.: 99.07582

Sample Description: B-2-3

Proj. #17094

Date Taken: 07/21/1999 Time Taken: 11:10 IEPA Cert. No. 100221

Westmont, IL 60559

Date Received: 07/21/1999 Time Received: 16:25

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of	Method	Analyst	Bato	ch No.	Analytical
		*,	Analysis	PQL		Prep/Run		Method
Surr: Phenol-d6	35.7	*	07/29/1999	10-94	pll	684	2019	SW 8270B
Surr: 2-Fluorophenol	46.8	*	07/29/1999	21-100	pll	684	2019	SW 8270B
Surr: 2,4,6-Tribromophenol	76.0	*	07/29/1999	10-123	pll	684	2019	SW 8270B
BASE/NEUTRALS - 8270B AQUEOUS								
Acenaphthene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Acenaphthylene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Anthracene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo (a) anthracene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(b) fluoranthene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(k) fluoranthene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo(g,h,ı)perylene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzo (a) pyrene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Benzyl butyl phthalate	<10	ug/L	07/29/1999	10	pl1	684	2019	SW 8270B
Bis(2-chloroethoxy)methane	<10	ug/L	07/29/1999	10	p11	684	2019	SW 8270B
Bis(2-chloroethyl)ether	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Bis(2-chloroisopropyl)ether	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Bis(2-ethylhexyl)phthalate	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
4-Bromophenyl phenyl ether	<10	ug/L `	07/29/1999	10	pll	684	2019	SW 8270B
2-Chloronaphthalene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
4-Chlorophenyl phenyl ether	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Chrysene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Dibenzo(a,h)anthracene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Di-n-butyl phthalate	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,2-Dichlorobenzene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,3-Dichlorobenzene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,4-Dichlorobenzene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/03/1999

Sample No. : 538396

Job No.: 99.07582

Sample Description: B-2-3

Proj. #17094

Date Taken: 07/21/1999 Time Taken: 11:10 IEPA Cert. No. 100221

Date Received: 07/21/1999 Time Received: 16:25

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analys		h No. /Run	Analytical Method
3,3'-Dichlorobenzidine	<20	ug/L	07/29/1999	20	р11	684	2019	SW 8270B
Diethyl phthalate	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Dimethyl phthalate	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
2.4-Dinitrotoluene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
2,6-Dinitrotoluene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Di-n-octyl phthalate	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Fluoranthene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Fluorene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Hexachlorobenzene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Hexachlorobutadiene	<10	ug/Ļ	07/29/1999	10	pll	684	2019	SW 8270B
Hexachlorocyclopentadiene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Hexachloroethane	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Indeno(1,2,3-cd)pyrene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Isophorone	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Naphthalene	<10	ug/L	07/29/1999	10	p11	684	2019	SW 8270B
Nitrobenzene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
N-Nitrosodimethylamine	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
N-Nitrosodi-n-propylamine	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
N-Nitrosodiphenylamine	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Phenanthrene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
Pyrene	<10	ug/L	07/29/1999	10	pll	684	2019	SW 8270B
1,2,4-Trichlorobenzene	<10	ug/L	07/29/1999	10	p11	684	2019	SW 8270B
Surr: Nitrobenzene-d5	77.5	*	07/29/1999	35-114	pll	684	2019	SW 8270B
Surr: 2-Fluorobiphenyl	68.0	*	07/29/1999	43-116	pll	684	2019	SW 8270B
Surr: Terphenyl-d14	71.9	*	07/29/1999	33-141	pll	684	2019	SW 8270B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 

414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No. : 538396

Job No.: 99.07582

Sample Description: B-2-3

Proj. #17094

Date Taken: 07/21/1999 Time Taken: 11:10

Date Received: 07/21/1999 Time Received: 16:25 WDNR Cert. No. 999447130 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
VOLATILES - 8260 Aqueous							
Acetone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Acrylonitrile	<5.0	ug/L	07/28/1999	5.0	mjo	774	SW 8260A
Benzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromochloromethane	<1.0	ug/L	07/28/1999	1.0	mJ0	774	SW 8260A
Bromodichloromethane	<1.0	ug/L	07/28/1999	1 0	mjo	774	SW 8260A
Bromoform	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Bromomethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
n-butylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
sec-butylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
tert-butylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Carbon Disulfide	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Carbon tetrachloride	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chlorodibromomethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chloroethane	<2.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chloroform	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Chloromethane	<2.0	ug/L	07/28/1999	2.0	mjo	774	SW 8260A
2-Chlorotoluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
4-Chlorotoluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dibromo-3-chloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dibromoethane (EDB)	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Dibromomethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,3-Dichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,4-Dichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 08/03/1999

Sample No. : 538396

Job No.: 99.07582

Sample Description:

B-2-3 Proj. #17094

2233: "=::::

Date Taken: 07/21/1999 Time Taken: 11:10 IEPA Cert. No. 100221 Date Received: 07/21/1999 Time Received: 16:25

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Dichlorodifluoromethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1-Dichloroethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dichloroethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1-Dichloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
cis-1,2-Dichloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
trans-1,2-Dichloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2-Dichloropropane	<1.0	ug/L	07/28/1999	1.0	mງo	774	SW 8260A
1,3-Dichloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
2,2-Dichloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1-Dichloropropene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
cis-1,3-Dichloropropene	<1 0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
trans-1,3-Dichloropropene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Ethylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
2-Hexanone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Hexachlorobutadiene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Iodomethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Isopropylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
p-Isopropyltoluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Methyl Ethyl Ketone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Methyl Isobutyl Ketone	<20	ug/L	07/28/1999	20	mjo	774	SW 8260A
Methylene chloride	<10	ug/L	07/28/1999	10	mjo	774	SW 8260A
Methyl-tert-butyl ether	<2.0	ug/L	07/28/1999	2.0	mjo	774	SW 8260A
Naphthalene	3.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
n-Propylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Styrene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1,1,2-Tetrachloroethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1,2,2-Tetrachloroethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Westmont, IL 60559

08/03/1999

Sample No.: 538396

Job No.: 99.07582

Sample Description: B-2-3

Proj. #17094

Date Taken: 07/21/1999 Time Taken: 11:10 IEPA Cert. No. 100221

Date Received: 07/21/1999 Time Received: 16:25 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Tetrachloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Toluene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2,3-Trichlorobenzene	<1.0	ug/L	07/28/1999	1.0	mjo ,	. 774	SW 8260A
1,2,4-Trichlorobenzene	<1.0	ug/L ·	07/28/1999	1.0	mjo	774	SW 8260A
1,1,1-Trichloroethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,1,2-Trichloroethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Trichloroethene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Trichlorofluoromethane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2,3-Trichloropropane	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
1,2,4-Trimethylbenzene	<1 0	ug/L	07/28/1999	1 0	mjo	774	SW 8260A
1,3,5-Trimethylbenzene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Vinyl chloride	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
o-Xylene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
m&p-Xylene	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Xylenes (total)	<1.0	ug/L	07/28/1999	1.0	mjo	774	SW 8260A
Surr: Dibromofluoromethane	101.6	*	07/28/1999	75-130	mjo	774	SW 8260A
Surr: Toluene-d8	97.0	ł	07/28/1999	85-117	mjo	774	SW 8260A
Surr: 4-Bromofluorobenzene	95.2	¥	07/28/1999	80-116	mjo	774	SW 8260A



### CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Run	CCA		
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
Chromium, hexavalent	1520	0.250	0.247	98.8
Chromium, hexavalent	1525	0.250	0.239	95.6
рН	1996	7.02	7.00	99.7
рН	1996	7.02	7.02	100.0
рН	2004	7.02	6.98	99.4
pН	2004	7.02	7.00	99.7
pH, Non-Aqueous	270	7.02	7.01	99.9
pH, Non-Aqueous	270	7.02	7.00	99.7
Chromium, ICP	4420	2.00	2.05	102.5
Chromium, ICP	2612	2.00	2.09	104.5
Chromium, Hexavalent	23	0.25	0.239	95.6
TCLP-Arsenic, ICP	4425	2.00	1.96	98.0
TCLP-Arsenic, ICP	4437	2.00	2.01	100.5
TCLP-Barium, ICP	4427	2.00	1.97	98.5
TCLP-Barıum, ICP	4438	2.00	1.98	99.0
TCLP-Cadmium, ICP	4398	1.00	0.970	97.0
TCLP-Cadmium, ICP	4411	1.00	0.964	96.4
TCLP-Chromium, ICP	4407	2.00	1.97	98.5
TCLP-Chromium, ICP	4419	2.00	1.97	98.5
TCLP-Lead, ICP	4614	2.00	1.96	98.0
TCLP-Lead, ICP	4625	2.00	1.96	98.0
TCLP-Mercury, CVAA	1223	0.0025	0.00259	103 6
TCLP-Mercury, CVAA	1230	0.0025	0.00255	102.0
TCLP-Selenium, ICP	4230	2.00	2.00	100.0
TCLP-Selenium, ICP	4242	2.00	2.00	100.0
TCLP-Silver, AA	1153	0.500	0.490	98.0
TCLP-Silver, AA	1160	0.500	0.466	93.2
PCBs 8082 Aqueous				
PCB-1016	780	500	492	98.4
PCB-1260	780	500	454	90.8
PCBs 8082 Aqueous				
PCB-1016	780	500	469	93.8
PCB-1260	780	500	495	99.0
PCBs 8082 Aqueous				

CCV - Continuing Calibration Verification



#### CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Dun	CCV		
	Run Batch	True	Conc.	Percent
No. 1 may	Number	Conc.	Found	Recovery
Analyte	Mumer	conc.	round	Kecovery
PCB-1016	780	500	491	98.2
PCB-1260	780	500	474	94.8
PCBs 8082 NonAqueous				
PCB-1016	780	500	503	100.6
PCB-1260	780	500	511	102 2
PCBs 8082 NonAqueous				
PCB-1016	780	500	487	97.4
PCB-1260	780	500	473	94.6
PCBs 8082 NonAqueous				
PCB-1016	780	500	509	101 8
PCB-1260	780	500	509	101.8
ACID CMPDS - 8270B AQUEOUS				
4-Chloro-3-methylphenol	2019	50.0	55.1	110.2
2,4-Dichlorophenol	2019	50.0	49.8	99.6
2-Nitrophenol	2019	50.0	49.2	98.4
Pentachlorophenol	2019	50.0	45.7	91.4
Phenol	2019	50.0	57.6	115.2
2,4,6-Trichlorophenol	2019	50.0	48.1	96.2
ACID CMPDS - 8270 NONAQUEOUS				
2,4-Dichlorophenol	1448	50.0	51.0	102.0
Pentachlorophenol	1448	50.0	46.0	92.0
Phenol	1448	50.0	50.0	100.0
2,4,6-Trichlorophenol	1448	50.0	49.0	98.0
BASE/NEUTRALS-8270 NONAQUEOUS				
VOLATILES - 8260 Aqueous				
Chloroform	774	50	52.4	104 8
1,1-Dichloroethene	774	50	53.0	106.0
1,2-Dichloropropane	774	50	48.8	97.6
Ethylbenzene	774	50	49.5	99.0
Toluene	774	50	48.4	96.8
Vinyl chloride	774	50	51.9	103.8
VOLATILES - 8260 NonAqueous				
Chloroform	907	50	58	116.0
1,1-Dichloroethene	907	50	58	116.0

CCV - Continuing Calibration Verification



#### CONTINUING CALIBRATION VERIFICATION

12

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

	Run	CCA		
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
1,2-Dichloropropane	907	50	48	96.0
Ethylbenzene	907	50	46	92.0
Toluene	907	50	45	90.0
Vinyl chloride	907	50	56	112.0



### **BLANK ANALYSIS**

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

				g, <b>4</b> ,		
	Prep	Run	Blank			3 3. 64
\$ <del>.*</del>	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
						out 51.05
Chromium, hexavalent		1520	<0.010	mg/L	0.01	SW 7196
Chromium, hexavalent		1525	<0.010	mg/L	0.01	SW 7196
Chromium, ICP	2592	4420	<0.040	mg/L	0.040	SW 6010B
Chromium, ICP	1389	2606	<2.0	mg/Kg	2.0	SW 6010B
Chromium, Hexavalent		23	<0.010	mg/L	0.01	SW 7196
TCLP-Arsenic, ICP	2585	4425	<0.20	mg/L	0.20	SW 6010B
TCLP-Arsenic, ICP	2593	4437	<0.20	mg/L	0.20	SW 6010B
TCLP-Barium, ICP	2585	4427	<0.020	mg/L	0.020	SW 6010B
TCLP-Barium, ICP	2593	4438	<0.020	mg/L	0.020	SW 6010B
TCLP-Cadmium, ICP	2585	4398	<0.010	mg/L	0.010	SW 6010B
TCLP-Cadmium, ICP	2593	4411	< 0 010	mg/L	0.010	SW 6010B
TCLP-Chromium, ICP	2585	4407	<0.040	mg/L	0.040	SW 6010B
TCLP-Chromium, ICP	2593	4419	< 0 040	mg/L	0.040	SW 6010B
TCLP-Chromium, ICP	2593	4419	<0.040	mg/L	0.040	SW 6010B
TCLP-Lead, ICP	2585	4614	<0.200	mg/L	0.200	SW 6010B
TCLP-Lead, ICP	2593	4625	<0.200	ώ <b>∂</b> ∖Γ	0.200	SW 6010B
TCLP-Lead, ICP	2593	4625	<0.200	mg/L	0.200	SW 6010B
TCLP-Mercury, CVAA	1350	1223	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Mercury, CVAA	1350	1223	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Mercury, CVAA	1353	1230	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Mercury, CVAA	1353	1230	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Selenium, ICP	2585	4230	<0.20	mg/L	0.20	SW 6010B
TCLP-Selenium, ICP	2593	4242	<0.20	mg/L	0.20	SW 6010B
TCLP-Silver, AA	1237	1153	<0.040	mg/L	0.040	SW 7760
TCLP-Silver, AA	1240	1160	<0.040	mg/L	0.040	SW 7760
PCBs 8082 Aqueous						SW 8082
	433	780	<0.5	ug/L	0.5	SW 8082
PCB-1016	433	780	<0.5	ug/L	0.5	SW 8082
PCB-1221	433	780	<0.5	ug/L	0.5	SW 8082
PCB-1232	433	, , ,	-0.5	~g, ~		

Advisory Control Limits for Blanks:



#### **BLANK ANALYSIS**

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
PCB-1242	433	780	<0.5	ug/L	0.5	SW 8082
PCB-1248	433	780	<0.5	ug/L	0.5	SW 8082
PCB-1254	433	780	<0.5	ug/L	0.5	SW 8082
PCB-1260	433	780	<0.5	ug/L	0.5	SW 8082
Surr: Tetrachloroxylene (TCX)	433	780	77.7	ł	45-110	SW 8082
Surr: Decachlorobiphenyl (DCB)	433	780	56.9	*	32-110	SW 8082
PCBs 8082 NonAqueous						SW 8082
PCB-1016	426	780	<50	ug/Kg	50	SW 8082
PCB-1221	426	780	<50	ug/Kg	50	SW 8082
PCB-1232	426	780	<50	ug/Kg	50	SW 8082
PCB-1242	426	780	<50	ug/Kg	50	SW 8082
PCB-1248	426	780	<50	ug/Kg	50	SW 8082
PCB-1254	426	780	<50	ug/Kg	50	SW 8082
PCB-1260	426	780	<50	ug/Kg	50	SW 8082
Surr: Tetrachloroxylene (TCX)	426	780	94.3	¥	59-118	SW 8082
Surr: Decachlorobiphenyl (DCB)	426	780	.89.9	*	55-132	SW 8082
ACID CMPDS - 8270B AQUEOUS						SW 8270B
4-Chloro-3-methylphenol	684	2018	<10	ug/L	10	SW 8270B
2-Chlorophenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dichlorophenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dimethylphenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Methyl-4,6-dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Nitrophenol	684	2018	<10	ug/L	10	SW 8270B
4-Nitrophenol	684	2018	<50	ug/L	50	SW 8270B
Pentachlorophenol	684	2018	<50	ug/L	50	SW 8270B
Phenol	684	2018	<10	ug/L	10	SW 8270B
2,4,6-Trichlorophenol	684	2018	<10	ug/L	10	SW 8270B
Surr: Phenol-d6	684	2018	31.5	-5, - 1	10-94	SW 8270B

Advisory Control Limits for Blanks:



### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
-						
Surr: 2-Fluorophenol	684	2018	41.5	ŧ	21-100	SW 8270B
Surr: 2,4,6-Tribromophenol	684	2018	74.0	ŧ	10-123	SW 8270B
ACID CMPDS - 8270B AQUEOUS						SW 8270B
4-Chloro-3-methylphenol	684	2018	<10	ug/L	10	SW 8270B
2-Chlorophenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dichlorophenol	684	2018	<10	. ug/L	10	SW 8270B
2,4-Dimethylphenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Methyl-4,6-dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Nitrophenol	684	2018	<10	ug/L	10	SW 8270B
4-Nitrophenol	684	2018	<10	ug/L	10	SW 8270B
Pentachlorophenol	684	2018	<50	ug/L	50	SW 8270B
Phenol	684	2018	<10	ug/L	10	SW 8270B
2,4,6-Trichlorophenol	684	2018	<10	ug/L	10	SW 8270B
Surr: Phenol-d6	684	2018	31.5	ŧ	10-94	SW 8270B
Surr: 2-Fluorophenol	684	2018	41.5	*	21-100	SW 8270B
Surr: 2,4,6-Tribromophenol	684	2018	74.0	*	10-123	SW 8270B
ACID CMPDS - 8270B AQUEOUS						SW 8270B
4-Chloro-3-methylphenol	684	2018	<10	ug/L	10	SW 8270B
2-Chlorophenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dichlorophenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dimethylphenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Methyl-4,6-dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Nitrophenol	684	2018	<10	ug/L	10	SW 8270B
4-Nitrophenol	684	2018	<50	ug/L	50	SW 8270B
Pentachlorophenol	684	2018	<50	ug/L	50	SW 8270B
Phenol	684	2018	<10	ug/L	10	SW 8270B
2,4,6-Trichlorophenol	684	2018	<10	ug/L	10	SW 8270B
=				_		

Advisory Control Limits for Blanks:



### **BLANK ANALYSIS**

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
-						
Surr: Phenol-d6	684	2018	31.5	*	10-94	SW 8270B
Surr: 2-Fluorophenol	684	2018	41.5	ŧ	21-100	SW 8270B
Surr: 2,4,6-Tribromophenol	684	2018	74.0	ŧ	10-123	SW 8270B
ACID CMPDS - 8270B AQUEOUS		~				SW 8270B
4-Chloro-3-methylphenol	684	2018	<10	ug/L	10	SW 8270B
2-Chlorophenol	684	2018	<10.	ug/L	10	SW 8270B
2,4-Dichlorophenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dimethylphenol	684	2018	<10	ug/L	10	SW 8270B
2,4-Dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Methyl-4,6-dinitrophenol	684	2018	<50	ug/L	50	SW 8270B
2-Nitrophenol	684	2018	<10	ug/L	10	SW 8270B
4-Nitrophenol	684	2018	<10	ug/L	10	SW 8270B
Pentachlorophenol	684	2018	<50	ug/L	50	SW 8270B
Phenol	684	2018	<10	ug/L	10	SW 8270B
2,4,6-Trichlorophenol	684	2018	<10	ug/L	10	SW 8270B
Surr: Phenol-d6	684	2018	31.5	*	10-94	SW 8270B
Surr: 2-Fluorophenol	684	2018	41.5	ŧ	21~100	SW 8270B
Surr: 2,4,6-Tribromophenol	684	2018	74.0	¥	10-123	SW 8270B
ACID CMPDS - 8270B AQUEOUS						SW 8270B
4-Chloro-3-methylphenol	684	2019	<10	ug/L	10	SW 8270B
2-Chlorophenol	684	2019	<10	ug/L	10	SW 8270B
2,4-Dichlorophenol	684	2019	<10	ug/L	10	SW 8270B
2,4-Dimethylphenol	684	2019	<10	ug/L	10	SW 8270B
2,4-Dinitrophenol	684	2019	<50	ug/L	50	SW 8270B
2-Methyl-4,6-dinitrophenol	684	2019	<50	ug/L	50	SW 8270B
2-Nitrophenol	684	2019	<10.	ug/L	10	SW 8270B
4-Nitrophenol	684	2019	<50	ug/L	50	SW 8270B
Pentachlorophenol	684	2019	<50	ug/L	50	SW 8270B
Phenol	684	2019	<10	ug/L	10	SW 8270B

Advisory Control Limits for Blanks:



#### **BLANK ANALYSIS**

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank				
	Batch	Batch	Analysis		Reporting	Analytical	
Analyte	Number	Number	Results	Units	Limit	Method	
2,4,6-Trichlorophenol	684	2019	<10	ug/L	10	SW 8270B	
Surr: Phenol-d6	684	2019	37.3	*	10-94	SW 8270B	
Surr: 2-Fluorophenol	684	2019	49.4	ŧ	21-100	SW 8270B	
Surr: 2,4,6-Tribromophenol	684	2019	86.5	ł	10-123	SW 8270B	
ACID CMPDS - 8270B AQUEOUS						SW 8270B	
4-Chloro-3-methylphenol	684	2019	<10	ug/L	10	SW 8270B	
2-Chlorophenol	684	2019	<10	ug/L	10	SW 8270B	
2,4-Dichlorophenol	684	2019	<10	ug/L	10	SW 8270B	
2,4-Dimethylphenol	684	2019	<10	ug/L	10	SW 8270B	
2,4-Dinitrophenol	684	2019	<50	ug/L	50	SW 8270B	
2-Methyl-4,6-dinitrophenol	684	2019	<50	ug/L	50	SW 8270B	
2-Nitrophenol	684	2019	<10	ug/L	10	SW 8270B	
4-Nitrophenol	684	2019	<10	ug/L	10	SW 8270B	
Pentachlorophenol	684	2019	<50	ug/L	50	SW 8270B	
Phenol	684	2019	<10	ug/L	10	SW 8270B	
2,4,6-Trichlorophenol	684	2019 ,	<10	ug/L	10	SW 8270B	
Surr: Phenol-d6	684	2019	37.3	ł	10-94	SW 8270B	
Surr: 2-Fluorophenol	684	2019	49.4	*	21-100	SW 8270B	
Surr: 2,4,6-Tribromophenol	684	2019	86.5	ł	10-123	SW 8270B	
BASE/NEUTRALS - 8270B AQUEOUS						SW 8270B	
Acenaphthene	684	2018	<10	ug/L	10	SW 8270B	
Acenaphthylene	684	2018	<10	ug/L	10	SW 8270B	
Anthracene	684	2018	<b>&lt;10</b>	ug/L	10	SW 8270B	
Benzo(a)anthracene	684	2018	<10	ug/L	10	SW 8270B	
Benzo(b)fluoranthene	684	2018	<10	ug/L	10	SW 8270B	
Benzo(k) fluoranthene	684	2018	<10	ug/L	10	SW 8270B	
Benzo(g,h,i)perylene	684	2018	<10	ug/L	10	SW 8270B	
Benzo(a)pyrene	684	2018	<10	ug/L	10	SW 8270B	
Benzyl butyl phthalate	684	2018	<10	ug/L	10	SW 8270B	

Advisory Control Limits for Blanks:



#### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
				_		
Bis(2-chloroethoxy)methane	684	2018	<10	ug/L	10	SW 8270B
Bis(2-chloroethy1)ether	684	2018	<10	ug/L	10	SW 8270B
Bis(2-chloroisopropyl)ether	684	2018	<10	ug/L	10	SW 8270B
Bis(2-ethylhexyl)phthalate	684	2018	<10	ug/L	10	SW 8270B
4-Bromophenyl phenyl ether	684	2018	<10	ug/L	10	SW 8270B
2-Chloronaphthalene	684	2018	<10	ug/L	10	SW 8270B
4-Chlorophenyl phenyl ether	684	2018	<10	ug/L	10	SW 8270B
Chrysene	684	2018	<10	ug/L	10	SW 8270B
Dibenzo(a,h)anthracene	684	2018	<10	ug/L	10	SW 8270B
Di-n-butyl phthalate	684	2018	<10	ug/L	10	SW 8270B
1,2-Dichlorobenzene	684	2018	<10 '	ug/L	10	SW 8270B
1,3-Dichlorobenzene	684	2018	<10	ug/L	10	SW 8270B
1,4-Dichlorobenzene	684	2018	<10	ug/L	10	SW 8270B
3,3'-Dichlorobenzidine	684	2018	<20	ug/L	20	SW 8270B
Diethyl phthalate	684	2018	<10	ug/L	10	SW 8270B
Dimethyl phthalate	684	2018	<10	ug/L	10	SW 8270B
2,4-Dinitrotoluene	684	2018	<10	ug/L	10	SW 8270B
2,6-Dinitrotoluene	684	2018	<10	ug/L	10	SW 8270B
Di-n-octyl phthalate	684	2018	<10	ug/L	10	SW 8270B
Fluoranthene	684	2018	<10	ug/L	10	SW 8270B
Fluorene	684	2018	<10	ug/L	10	SW 8270B
Hexachlorobenzene	684	2018	<10	ug/L	10	SW 8270B
Hexachlorobutadiene	684	2018	<10	ug/L	10	SW 8270B
Hexachlorocyclopentadiene	684	2018	<10	ug/L	10	SW 8270B
Hexachloroethane	684	2018	<10	ug/L	10	SW 8270B
Indeno(1,2,3-cd)pyrene	684	2018	<10	ug/L	10	SW 8270B
Isophorone	684	2018	<10	ug/L	10	SW 8270B
Naphthalene	684	2018	<10	ug/L	10	SW 8270B
•	684	2018	<10	ug/L	10	SW 8270B

Advisory Control Limits for Blanks:



#### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
N-Nitrosodimethylamine	684	2018	<10	ug/L	10	SW 8270B
N-Nitrosodi-n-propylamine	684	2018	<10	ug/L	10	SW 8270B
N-Nitrosodiphenylamine	684	2018	<10	ug/L	10	SW 8270B
Phenanthrene	684	2018	<10	ug/L	10	SW 8270B
Pyrene	684	2018	<10	ug/L	10	SW 8270B
1,2,4-Trichlorobenzene	684	2018	<10	ug/L	10	SW 8270B
Surr: Nitrobenzene-d5	684	2018	78.0	ŧ	35-114	SW 8270B
Surr: 2-Fluorobiphenyl	684	2018	71.0	ŧ	43-116	SW 8270B
Surr: Terphenyl-d14	684	2018	84.0	ł	33-141	SW 8270B
BASE/NEUTRALS - 8270B AQUEOUS						SW 8270B
Acenaphthene	684	2018	<10	ug/L	10	SW 8270B
Acenaphthylene	684	2018	<10	ug/L	10	SW 8270B
Anthracene	684	2018	<10	ug/L	10	SW 8270B
Benzo (a) anthracene	684	2018	<10	ug/L	10	SW 8270B
Benzo(b)fluoranthene	684	2018	<10	ug/L	10	SW 8270B
Benzo(k)fluoranthene	684	2018	<10	ug/L	10	SW 8270B
Benzo(g,h,i)perylene	684	2018	<10	ug/L	10	SW 8270B
Benzo(a)pyrene	684	2018	<10	ug/L	10	SW 8270B
Benzyl butyl phthalate	684	2018	<10	ug/L	10	SW 8270B
Bis(2-chloroethoxy)methane	684	2018	<10	ug/L	10	SW 8270B
Bis(2-chloroethyl)ether	684	2018	<10	ug/L	10	SW 8270B
Bis (2-chloroisopropyl) ether	684	2018	<10	ug/L	10	SW 8270B
Bis(2-ethylhexyl)phthalate	684	2018	<10	ug/L	10	SW 8270B
4-Bromophenyl phenyl ether	684	2018	<10	ug/L	10	SW 8270B
2-Chloronaphthalene	684	2018	<10	ug/L	10	SW 8270B
4-Chlorophenyl phenyl ether	684	2018	<10	ug/L	10	SW 8270B
Chrysene	684	2018	<10	ug/L	10	SW 8270B
Dibenzo(a,h)anthracene	684	2018	<10	ug/L	10	SW 8270B
Di-n-butyl phthalate	684	2018	<10	ug/L	10	SW 8270B

Advisory Control Limits for Blanks.



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# **QUALITY CONTROL REPORT**

### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
•						
1,2-Dichlorobenzene	684	2018	<10	ug/L	10	SW 8270B
1,3-Dichlorobenzene	684	2018	<10	ug/L	10	SW 8270B
1,4-Dichlorobenzene	684	2018	<10	ug/L	10	SW 8270B
3,3'-Dichlorobenzidine	684	2018	<20 - ;	ug/L	20	SW 8270B
Diethyl phthalate	684	2018	<10	ug/L	10	SW 8270B
Dimethyl phthalate	684	2018	<10	ug/L	10	SW 8270B
2,4-Dinitrotoluene	684	2018	<10	ug/L	10	SW 8270B
2,6-Dinitrotoluene	684	2018	<10	ug/L	10	SW 8270B
Di-n-octyl phthalate	684	2018	<10	ug/L	10	SW 8270B
Fluoranthene	684	2018	<10	ug/L	10	SW 8270B
Fluorene	684	2018	<10	ug/L	10	SW 8270B
Hexachlorobenzene	684	2018	<10	ug/L	10	SW 8270B
Hexachlorobutadiene	684	2018	<10	ug/L	10	SW 8270B
Hexachlorocyclopentadiene	684	2018	<10	ug/L	10	SW 8270B
Hexachloroethane	684	2018	<10	ug/L	10	SW 8270B
Indeno(1,2,3-cd)pyrene	684	2018	<10	ug/L	10	SW 8270B
Isophorone	684	2018	<10	ug/L	10	SW 8270B
Naphthalene	684	2018	<10	ug/L	10	SW 8270B
Nitrobenzene	684	2018	<10	ug/L	10	SW 8270B
N-Nitrosodimethylamine	684	2018	<10	ug/L	10	SW 8270B
N-Nitrosodi-n-propylamine	684	2018	<10	ug/L	10	SW 8270B
N-Nitrosodiphenylamine	684	2018	<10	ug/L	10	SW 8270B
Phenanthrene	684	2018	<10	ug/L	10	SW 8270B
Pyrene	684	2018	<10	ug/L	10	SW 8270B
1,2,4-Trichlorobenzene	684	2018	<10	ug/L	10	SW 8270B
Surr: Nitrobenzene-d5	684	2018	78.0	*	35-114	SW 8270B
Surr: 2-Fluorobiphenyl	684	2018	71.0	ŧ	43-116	SW 8270B
Surr: Terphenyl-d14	684	2018	84.0	ŧ	33-141	SW 8270B
BASE/NEUTRALS - 8270B AQUEOUS	- • -		<del>-</del>	-		SW 8270B
Principle of the Manney						J 02/05

Advisory Control Limits for Blanks:



### **BLANK ANALYSIS**

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run di	Blank .	^		
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
1						
Acenaphthene	684	2019	<10	ug/L	10	SW 8270B
Acenaphthylene	684	2019	<10	ug/L	10	SW 8270B
Anthracene	684	2019	<10	ug/L	10	SW 8270B
Benzo (a) anthracene	684	2019	<10	ug/L	10	SW 8270B
Benzo(b)fluoranthene	684	2019	<10	ug/L	10	SW 8270B
Benzo(k)fluoranthene	684	2019	<10	ug/L	10	SW 8270B
Benzo(g,h,i)perylene	684	2019	<10	ug/L	10	SW 8270B
Benzo(a)pyrene	684	2019	<10	ug/L	10	SW 8270B
Benzyl butyl phthalate	684	2019	<10	ug/L	10	SW 8270B
Bis(2-chloroethoxy)methane	684	2019	<10	ug/L	10	SW 8270B
Bis(2-chloroethyl)ether	684	2019	<10	ug/L	10	SW 8270B
Bis(2-chloroisopropyl)ether	684	2019	<10	ug/L	10	SW 8270B
Bis(2-ethylhexyl)phthalate	684	2019	<10	ug/L	10	SW 8270B
4-Bromophenyl phenyl ether	684	2019	<10	ug/L	10	SW 8270B
2-Chloronaphthalene	684	2019	<10	ug/L	10	SW 8270B
4-Chlorophenyl phenyl ether	684	2019	<10	ug/L	10	SW 8270B
Chrysene	684	2019	<10	ug/L	10	SW 8270B
Dibenzo(a,h)anthracene	684	2019	<10	ug/L	10	SW 8270B
Di-n-butyl phthalate	684	2019	<10	ug/L	10	SW 8270B
1,2-Dichlorobenzene	684	2019	<10	ug/L	10	SW 8270B
1,3-Dichlorobenzene	684	2019	<10	ug/L	10	SW 8270B
1,4-Dichlorobenzene	684	2019	<10	ug/L	10	SW 8270B
3,3'-Dichlorobenzidine	684	2019	<20	ug/L	20	SW 8270B
Diethyl phthalate	684	2019	<10	ug/L	10	SW 8270B
Dimethyl phthalate	684	2019	<10	ug/L	10	SW 8270B
2,4-Dinitrotoluene	684	2019	<10	ug/L	10	SW 8270B
2,6-Dinitrotoluene	684	2019	<10	ug/L	10	SW 8270B
Di-n-octyl phthalate	684	2019	<10	ug/L	10	SW 8270B
Fluoranthene	684	2019	<10	ug/L	10	SW 8270B

Advisory Control Limits for Blanks:



### **BLANK ANALYSIS**

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Fluorene	684	2019	<10	ug/L	10	SW 8270B
Hexachlorobenzene	684	2019	<10	ug/L	10	SW 8270B
Hexachlorobutadiene	684	2019	<10	ug/L	10	SW 8270B
Hexachlorocyclopentadiene	684	2019	<10	ug/L	10	SW 8270B
Hexachloroethane	684	2019	<10	ug/L	10	SW 8270B
Indeno(1,2,3-cd)pyrene	684	2019	<10	ug/L	10	SW 8270B
Isophorone	684	2019	<10	ug/L	10	SW 8270B
Naphthalene	684	2019	<10	ug/L	10	SW 8270B
Nitrobenzene	684	2019	<10	ug/L	10	SW 8270B
N-Nitrosodimethylamine	684	2019	<10	ug/L	10	SW 8270B
N-Nitrosodi-n-propylamine	684	2019	<10	ug/L	10	SW 8270B
N-Nitrosodiphenylamine	684	2019	<10	ug/L	10	SW 8270B
Phenanthrene	684	2019	<10	ug/L	10	SW 8270B
Pyrene	684	2019	<10	ug/L	10	SW 8270B
1,2,4-Trichlorobenzene	684	2019	<10	ug/L	10	SW 8270B
Surr: Nitrobenzene-d5	684	2019	87.7	ł	35-114	SW 8270B
Surr: 2-Fluorobiphenyl	684	2019	75.9	*	43-116	SW 8270B
Surr: Terphenyl-d14	684	2019	95.0	ł	33-141	SW 8270B
ACID CMPDS - 8270 NONAQUEOUS						SW 8270B
4-Chloro-3-methylphenol	515	1447	<330	ug/Kg	330	SW 8270B
2-Chlorophenol	515	1447	<330	ug/Kg	330	SW 8270B
2,4-Dichlorophenol	515	1447	<330	ug/Kg	330	SW 8270B
2,4-Dimethylphenol	515	1447	<330	ug/Kg	330	SW 8270B
2,4-Dinitrophenol	515	1447	<1,600	ug/Kg	1,600	SW 8270B
2-Methyl-4,6-dinitrophenol	515	1447	<1,600	ug/Kg	1,600	SW 8270B
2-Nitrophenol	515	1447	<330	ug/Kg	330	SW 8270B
4-Nitrophenol	515	1447	<1,600	ug/Kg	1,600	SW 8270B
Pentachlorophenol	515	1447	•	ug/Kg	1,600	SW 8270B
Phenol	515	1447	•	ug/Kg	330	SW 8270B

Advisory Control Limits for Blanks:



### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
2,4,6-Trichlorophenol	515	1447	<330	ug/Kg	330	SW 8270B
Surr: Phenol-d6	515	1447	69.0	*	24-113	SW 8270B
Surr: 2-Fluorophenol	515	1447	66.5	ŧ	25-121	SW 8270B
Surr: 2,4,6-Tribromophenol	515	1447	70.5	ŧ	19-122	SW 8270B
BASE/NEUTRALS-8270 NONAQUEOUS						SW 8270B
Acenaphthene	515	1447	<330	ug/Kg	330	SW 8270B
Acenaphthylene	515	1447	<330	ug/Kg	330	SW 8270B
Anthracene	515	1447	<330	ug/Kg	330	SW 8270B
Benzo (a) anthracene	515	1447	<330	ug/Kg	330	SW 8270B
Benzo(b)fluoranthene	515	1447	<330	ug/Kg	330	SW 8270B
Benzo(k) fluoranthene	515	1447	<330	ug/Kg	330	SW 8270B
Benzo(g,h,1)perylene	515	1447	<330	ug/Kg	330	SW 8270B
Benzo(a)pyrene	515	1447	<330	ug/Kg	330	SW 8270B
Benzyl butyl phthalate	515	1447	<330	ug/Kg	330	SW 8270B
Bis(2-chloroethoxy)methane	515	1447	<330	ug/Kg	330	SW 8270B
Bis(2-chloroethyl)ether	515	1447	<330	ug/Kg	330	SW 8270B
Bis(2-chloroisopropyl)ether	515	1447	<330	ug/Kg	330	SW 8270B
Bis(2-ethylhexyl)phthalate	515	1447	<330	ug/Kg	330	SW 8270B
4-Bromophenyl phenyl ether	515	1447	<330	ug/Kg	330	SW 8270B
2-Chloronaphthalene	515	1447	<330	ug/Kg	330	SW 8270B
4-Chlorophenyl phenyl ether	515	1447	<330	ug/Kg	330	SW 8270B
Chrysene	515	1447	<330	ug/Kg	330	SW 8270B
Dibenzo (a, h) anthracene	515	1447	<330	ug/Kg	330	SW 8270B
Di-n-butyl phthalate	515	1447	<330	ug/Kg	330	SW 8270B
1,2-Dichlorobenzene	515	1447	<330	ug/Kg	330	SW 8270B
1,3-Dichlorobenzene	515	1447	<330	ug/Kg	330	SW 8270B
1,4-Dichlorobenzene	515	1447	<330	ug/Kg	330	SW 8270B
3,3'-Dichlorobenzidine	515	1447	<660	ug/Kg	660	SW 8270B
Diethyl phthalate	515	1447	<330	ug/Kg	330	SW 8270B

Advisory Control Limits for Blanks:



### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Dimethyl phthalate	515	1447	<330	ug/Kg	330	SW 8270B
2,4-Dinitrotoluene	515	1447	<330	ug/Kg	330	SW 8270B
2,6-Dinitrotoluene	515	1447	<330	ug/Kg	330	SW 8270B
Di-n-octyl phthalate	515	1447	<330	ug/Kg	330	SW 8270B
Fluoranthene	515	1447	<330	ug/Kg	330	SW 8270B
Fluorene	515	1447	<330	ug/Kg	330	SW 8270B
Hexachlorobenzene	515	1447	<330	ug/Kg	330	SW 8270B
Hexachlorobutadiene	515	1447	<330	ug/Kg	330	SW 8270B
Hexachlorocyclopentadiene	515	1447	<330	ug/Kg	330	SW 8270B
Hexachloroethane	515	1447	<330	ug/Kg	330	SW 8270B
Indeno(1,2,3-cd)pyrene	515	1447	<330	ug/Kg	330	SW 8270B
Isophorone	515	1447	<330	ug/Kg	330	SW 8270B
Naphthalene	515	1447	<330	ug/Kg	330	SW 8270B
Nitrobenzene	515	1447	<330	ug/Kg	330	SW 8270B
N-Nitrosodimethylamine	515	1447	<330	ug/Kg	330	SW 8270B
N-Nitrosodi-n-propylamıne	515	1447	<330	ug/Kg	330	SW 8270B
N-Nitrosodiphenylamıne	515	1447	<330	ug/Kg	330	SW 8270B
Phenanthrene	515	1447	<330	ug/Kg	330	SW 8270B
Pyrene	515	1447	<330	ug/Kg	330	SW 8270B
1,2,4-Trichlorobenzene	515	1447	<330	ug/Kg	330	SW 8270B
Surr: Nitrobenzene-d5	515	1447	75.0	ŧ	23-120	SW 8270B
Surr: 2-Fluorobiphenyl	515	1447	69.0	¥	30-115	SW 8270B
Surr: Terphenyl-d14	515	1447	70.0	<b>}</b>	18-137	SW 8270B
VOLATILES - 8260 Aqueous			1			SW 8260A
Acetone		774	<20	ug/L	20	SW 8260A
Acrylonitrile		774	<5.0	ug/L	5.0	SW 8260A
Benzene		774	<1.0	ug/L	1.0	SW 8260A
Bromobenzene		774	<1.0	ug/L	1.0	SW 8260A
Bromochloromethane		774	<1.0	ug/L	1.0	SW 8260A

Advisory Control Limits for Blanks:



#### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Bromodichloromethane		774	<1.0	ug/L	1.0	SW 8260A
Bromoform		774	<1.0	ug/L	1.0	SW 8260A
Bromomethane		774	<1.0	uq/L	1.0	SW 8260A
n-butylbenzene		774	<1.0	ug/L	1.0	SW 8260A
sec-butylbenzene		774	<1.0	ug/L	1.0	SW 8260A
tert-butylbenzene		774	<1.0	ug/L	1.0	SW 8260A
Carbon Disulfide		774	<20	ug/L	20	SW 8260A
Carbon tetrachloride		774	<1.0	ug/L	1.0	SW 8260A
Chlorobenzene		774	<1.0	ug/L	1.0	SW 8260A
Chlorodibromomethane		774	<1.0	ug/L	1.0	SW 8260A
Chloroethane		774	<2.0	ug/L	1.0	SW 8260A
Chloroform		774	<1.0	ug/L	1 0	SW 8260A
Chloromethane		774	<2.0	ug/L	2.0	SW 8260A
2-Chlorotoluene		774	<1.0	ug/L	1.0	SW 8260A
4-Chlorotoluene		774	<1.0	ug/L	1.0	SW 8260A
1,2-Dibromo-3-chloropropane		774	<1.0	ug/L	1.0	SW 8260A
1,2-Dibromoethane (EDB)		774	<1.0	ug/L	1.0	SW 8260A
Dibromomethane		774	<1.0	ug/L	1.0	SW 8260A
1,2-Dichlorobenzene		774	<1.0	ug/L	1.0	SW 8260A
1,3-Dichlorobenzene		774	<1.0	ug/L	1.0	SW 8260A
1,4-Dichlorobenzene		774	<1.0	ug/L	1.0	SW 8260A
Dichlorodifluoromethane		774	<1.0	ug/L	1.0	SW 8260A
1,1-Dichloroethane		774	<1.0	ug/L	1.0	SW 8260A
1,2-Dichloroethane		774	<1.0	ug/L	1.0	SW 8260A
1,1-Dichloroethene		774	<1.0	ug/L	1.0	SW 8260A
cis-1,2-Dichloroethene		774	<1.0	ug/L	1.0	SW 8260A
trans-1,2-Dichloroethene		774	<1.0	ug/L	1.0	SW 8260A
1,2-Dichloropropane		774	<1.0	ug/L	1.0	SW 8260A
1,3-Dichloropropane		774	<1.0	ug/L	1.0	SW 8260A
-						

Advisory Control Limits for Blanks:



#### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
2,2-Dichloropropane		774	<1.0	ug/L	1.0	SW 8260A
1,1-Dichloropropene		774	<1.0	ug/L	1.0	SW 8260A
cis-1,3-Dichloropropene		774	<1 0	ug/L	1.0	SW 8260A
trans-1,3-Dichloropropene		774	<1.0	ug/L	1.0	SW 8260A
Ethylbenzene		774	<1.0	ug/L	1.0	SW 8260A
2-Hexanone		774	<20	ug/L	20	SW 8260A
Hexachlorobutadiene		774	<1.0	ug/L	1.0	SW 8260A
Iodomethane		774	<1.0	ug/L	1.0	SW 8260A
Isopropylbenzene		774	<1.0	ug/L	1.0	SW 8260A
p-Ísopropyltoluene		774	<1 0	ug/L	1 0	SW 8260A
Methyl Ethyl Ketone		774	<20	ug/L	20	SW 8260A
Methyl Isobutyl Ketone		774	<20	ug/L	20	SW 8260A
Methylene chloride		774	<10	ug/L	10	SW 8260A
Methyl-tert-butyl ether		774	<2.0	ug/L	2.0	SW 8260A
Naphthalene		774	<1.0	ug/L	1.0	SW 8260A
n-Propylbenzene		774	<1.0	ug/L	1.0	SW 8260A
Styrene		774	<1.0	ug/L	1.0	SW 8260A
1,1,1,2-Tetrachloroethane		774	<1.0	ug/L	1.0	SW 8260A
1,1,2,2-Tetrachloroethane		774	<1.0	ug/L	1.0	SW 8260A
Tetrachloroethene		774	<1.0	ug/L	1.0	SW 8260A
Toluene		774	<1.0	ug/L	1.0	SW 8260A
1,2,3-Trichlorobenzene		774	<1.0	ug/L	1.0	SW 8260A
1,2,4-Trichlorobenzene		774	<1.0	ug/L	1.0	SW 8260A
1,1,1-Trichloroethane		774	<1.0	ug/L	1.0	SW 8260A
1,1,2-Trichloroethane		774	<1.0	ug/L	1.0	SW 8260A
Trichloroethene		774	<1.0	ug/L	1.0	SW 8260A
Trichlorofluoromethane		774	<1.0	ug/L	1.0	SW 8260A
1,2,3-Trichloropropane		774	<1.0	ug/L	1.0	SW 8260A
1,2,4-Trimethylbenzene		774	<1.0	ug/L	1.0	SW 8260A
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Advisory Control Limits for Blanks:



### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & 08/03/1999 ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 Mr. David Pyles

NET Job Number: 99.07582

Analyte	Prep Batch Number	Run Batch Number	Blank Analysıs Results	Units	Reporting Limit	Analytical Method
1,3,5-Trimethylbenzene		774	<1.0	ug/L	1.0	SW 8260A
Vinyl chloride		774	<1.0	ug/L	1.0	SW 8260A
Xylenes (total)		774	<1 0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		774	102.0	ł	75-130	SW 8260A
Surr: Toluene-d8		774	98.2	ł	85-117	SW 8260A
Surr: 4-Bromofluorobenzene		774	93.6	ł	80-116	SW 8260A
VOLATILES - 8260 NonAqueous						SW 8260A
Acetone		907	<100	ug/Kg	100	SW 8260A
Acrylonitrile		907	<50	ug/Kg	50	SW 8260A
Benzene		907	<5.0	ug/Kg	5.0	SW 8260A
Bromobenzene		907	<5.0	ug/Kg	5.0	SW 8260A
Bromochloromethane		907	<5.0	ug/Kg	5.0	SW 8260A
Bromodichloromethane		907	<5.0	ug/Kg	5.0	SW 8260A
Bromoform		907	<5.0	ug/Kg	5.0	SW 8260A
Bromomethane		907	<5 0	ug/Kg	5.0	SW 8260A
n-Butylbenzene		907	<5.0	ug/Kg	5.0	SW 8260A
sec-Butylbenzene		907	<5.0	ug/Kg	5.0	SW 8260A
tert-Butylbenzene		907	<5.0	ug/Kg	5.0	SW 8260A
Carbon tetrachloride		907	<5.0	ug/Kg	5.0	SW 8260A
Chlorobenzene		907	<5.0	ug/Kg	5.0	SW 8260A
Chlorodibromomethane		907	<5.0	ug/Kg	5.0	SW 8260A
Chloroethane		907	<5.0	ug/Kg	5.0	SW 8260A
Chloroform		907	<5.0	ug/Kg	5.0	SW 8260A
Chloromethane		907	<5.0	ug/Kg	5.0	SW 8260A
2-Chlorotoluene		907	<5.0	ug/Kg	5.0	SW 8260A
4-Chlorotoluene		907	<5.0	ug/Kg	5.0	SW 8260A
1,2-Dibromo-3-chloropropane		907	<5.0 ,	ug/Kg	5.0	SW 8260A
1,2-Dibromoethane (EDB)		907	<5.0	ug/Kg	5.0	SW 8260A
Dibromomethane		907	<5.0	ug/Kg	5.0	SW 8260A

Advisory Control Limits for Blanks:



### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep Batch	Run Batch	Blank Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
1,2-Dichlorobenzene		907	<5.0	ug/Kg	5.0	SW 8260A
1,3-Dichlorobenzene		907	<5.0	ug/Kg	5.0	SW 8260A
1.4-Dichlorobenzene		907	<5.0	ug/Kg	5.0	SW 8260A
Dichlorodifluoromethane		907	-<5°.0	ug/Kg	5.0	SW 8260A
1,1-Dichloroethane		907	<5.0	ug/Kg	5.0	SW 8260A
1,2-Dichloroethane		907	<5.0	ug/Kg	5.0	SW 8260A
1,1-Dichloroethene		907	<5.0	ug/Kg	5.0	SW 8260A
cis-1,2-Dichloroethene		907	<5.0	ug/Kg	5.0	SW 8260A
trans-1,2-Dichloroethene		907	<5.0	ug/Kg	5.0	SW 8260A
1,2-Dichloropropane		907	<5.0	ug/Kg	5.0	SW 8260A
1,3-Dichloropropane		907	<5.0	ug/Kg	5.0	SW 8260A
2,2-Dichloropropane		907	<5.0	ug/Kg	5.0	SW 8260A
1,1-Dichloropropene		907	<5.0	ug/Kg	5.0	SW 8260A
cis-1,3-Dichloropropene		907	<5.0	ug/Kg	5.0	SW 8260A
trans-1,3-Dichloropropene		907	<5.0	ug/Kg	5.0	SW 8260A
Ethylbenzene		907	<5.0	ug/Kg	5.0	SW 8260A
2-Hexanone		907	<100	ug/Kg	100	SW 8260A
Hexachlorobutadiene		907	<5.0	ug/Kg	5.0	SW 8260A
Iodomethane		907	<5.0	ug/Kg	5.0	SW 8260A
Isopropylbenzene		907	<5.0	ug/Kg	5.0	SW 8260A
p-Isopropyltoluene		907	<5.0	ug/Kg	5.0	SW 8260A
Methyl Ethyl Ketone		907	<100	ug/Kg	100	SW 8260A
Methyl Isobutyl Ketone		907	<100	ug/Kg	100	SW 8260A
Methylene Chloride		907	<50	ug/Kg	50	SW 8260A
Methyl-tert-butyl ether		907	<5.0	ug/Kg	5.0	SW 8260A
Naphthalene		907	<5.0	ug/Kg	5.0	SW 8260A
n-propylbenzene		907	<5.0	ug/Kg	5.0	SW 8260A
Styrene		907	<5.0	ug/Kg	5.0	SW 8260A
1,1,1,2-Tetrachloroethane		907	<5.0	ug/Kg	5.0	SW 8260A

Advisory Control Limits for Blanks:



### BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
1,1,2,2-Tetrachloroethane		907	<5.0	ug/Kg	5.0	SW 8260A
Tetrachloroethene		907	<5.0	ug/Kg	5.0	SW 8260A
Toluene		907	<5.0	ug/Kg	5.0	SW 8260A
1,2,3-Trichlorobenzene		907	<5.0	ug/Kg	5.0	SW 8260A
1,2,4-Trichlorobenzene		907	<5.0	ug/Kg	5.0	SW 8260A
1,1,1-Trichloroethane		907	<5.0	ug/Kg	5.0	SW 8260A
1,1,2-Trichloroethane		907	<5.0	ug/Kg	5.0	SW 8260A
Trichloroethene		907	<5.0	ug/Kg	5 0	SW 8260A
Trichloroflyoromethane		907	<5.0	ug/Kg	5.0	SW 8260A
		907	<5.0	ug/Kg ug/Kg	5.0	SW 8260A
1,2,3-Trichloropropane						SW 8260A
1,2,4-Trimethylbenzene		907	<5.0	ug/Kg	5.0	
1,3,5-Trimethylbenzene		907	<5.0	ug/Kg	5.0	SW 8260A
Vinyl chloride		907	<5.0	ug/Kg	5.0	SW 8260A
Xylenes		907	<5.0	ug/Kg	5.0	SW 8260A
Surr: Dibromofluoromethane		907	114.0	*	81-129	SW 8260A
Surr: Toluene-d8		907	102.0	ŧ	74-129	SW 8260A
Surr: 4-Bromofluorobenzene		907	94.0	ŧ	70-130	SW 8260A

Advisory Control Limits for Blanks:



#### LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

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	Prep	Run	₽		
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	* Recovery
When the second and		1525	2.5	2.22	88.8
Chromium, hexavalent	2502	4420	1.00	0.970	97.0
Chromium, ICP	2592			48.4	
Chromium, ICP	1389	2606 23	50.0	2.22	96.8
Chromium, Hexavalent	2505	- <del>-</del>	2.5		88.8
TCLP-Arsenic, ICP	2585	4425	1.00	1.05	105.0
TCLP-Arsenic, ICP	2593	4437	1.00	1.01	101.0
TCLP-Barium, ICP	2585	4427	1.00	0.982	98.2
TCLP-Barium, ICP	2593	4438	1.00	0.954	95.4
TCLP-Cadmium, ICP	2585	4398	0.500	0.475	95.0
TCLP-Cadmium, ICP	2593	4411	0.500	0.459	91.8
TCLP-Chromium, ICP	2585	4407	1.00	0.987	98.7
TCLP-Chromium, ICP	2593	4419	1.00	1.01	101.0
TCLP-Chromium, ICP	2593	4419	1.00	1.01	101.0
TCLP-Lead, ICP	2585	4614	1.00	0.977	97.7
TCLP-Lead, ICP	2593	4625	1.0	0 955	95.5
TCLP-Lead, ICP	2593	4625	1.00	0.955	95.5
TCLP-Mercury, CVAA	1350	1223	0.0025	0.00242	96.8
TCLP-Mercury, CVAA	1350	1223	0.0025	0.00242	96.8
TCLP-Mercury, CVAA	1353	1230	0.0025	0.00268	107.2
TCLP-Mercury, CVAA	1353	1230	0.0025	0.00268	107.2
TCLP-Selenium, ICP	2585	4230	1.00	0.982	98 2
TCLP-Selenium, ICP	2593	4242	1.00	0.972	97.2
TCLP-Silver, AA	1237	1153	1.00	0.98	98.0
TCLP-Silver, AA	1240	1160	1.00	1.14	114.0
PCBs 8082 Aqueous					
PCB-1016	433	780	5.0	5.1	102.0
PCB-1260	433	7,80	5.0	4.4	88.0
Surr: Tetrachloroxylene (TCX)	433	780	100	89.8	89.8
Surr: Decachlorobiphenyl (DCB)	433	780	100	71.2	71.2
PCBs 8082 NonAqueous					
PCB-1016	426	780	166.7	150.0	90.0
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### LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

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08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	Recovery
PCB-1260	426	780	166.7	139.5	83.7
Surr: Tetrachloroxylene (TCX)	426	780	100	95.8	95.8
Surr: Decachlorobiphenyl (DCB)	426	780	100	94.0	94.0
ACID CMPDS - 8270B AQUEOUS					
4-Chloro-3-methylphenol	684	2018	80	67	83.8
2-Chlorophenol	684	2018	80	59	73.8
2,4-Dichlorophenol	684	2018	80	64	80.0
2,4-Dimethylphenol	684	2018	80	60	75.0
2,4-Dinitrophenol	684	2018	80	69	86.3
2-Methyl-4,6-dinitrophenol	684	2018	80	71	88.8
2-Nitrophenol	684	2018	80	63	78.8
4-Nitrophenol	684	2018	80	31	38.8
Pentachlorophenol	684	2018	80	64	80 0
Phenol	684	2018	80	30	37.5
2,4,6-Trichlorophenol	684	2018	80	68	85.0
Surr: Phenol-d6	684	2018	200	73	36.5
Surr: 2-Fluorophenol	684	2018	200	99	49.5
Surr: 2,4,6-Tribromophenol	684	2018	200	163	81.5
ACID CMPDS - 8270B AQUEOUS					
4-Chloro-3-methylphenol	684	2018	80	67	83.8
2-Chlorophenol	684	2018	80	59	73.8
2,4-Dichlorophenol	684	2018	80	64	80.0
2,4-Dimethylphenol	684	2018	80	60	75.0
2,4-Dinitrophenol	684	2018	80	69	86.3
2-Nitrophenol	684	2018	80	63	78.8
4-Nitrophenol	684	2018	80	31	38.8
Pentachlorophenol	684	2018	80	64	80.0
Phenol	684	2018	80	30	37.5
2,4,6-Trichlorophenol	684	2018	80	68	85.0
Surr: Phenol-d6	684	2018	200	73	36.5
Surr: 2-Fluorophenol	684	2018	200	99	49.5
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### LABORATORY CONTROL STANDARD

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08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	* Recovery
Surr: 2,4,6-Tribromophenol ACID CMPDS - 8270B AQUEOUS	684	2018	200	163	81.5
4-Chloro-3-methylphenol	684	2018	80	67	83.8
2-Chlorophenol	684	2018	80	59	73.8
2,4-Dichlorophenol	684	2018	80 '	64	80.0
2,4-Dimethylphenol	684	2018	80	60	75.0
2,4-Dinitrophenol	684	2018	80	69	86.3
2-Methyl-4,6-dinitrophenol	684	2018	80	71	88.8
2-Nitrophenol	684	2018	80	63	78.8
4-Nitrophenol	684	2018	80	31	38.8
Pentachlorophenol	684	2018	80	64	80.0
Phenol	684	2018	80	30	37.5
2,4,6-Trichlorophenol	684	2018	80	68	85.0
Surr: Phenol-d6	684	2018	200	73	36.5
Surr: 2-Fluorophenol	684	2018	200	99	49.5
Surr: 2,4,6-Tribromophenol	684	2018	200	163	81.5
ACID CMPDS - 8270B AQUEOUS					
4-Chloro-3-methylphenol	684	2018	80	67	83.8
2-Chlorophenol	684	2018	80	59	73.8
2,4-Dichlorophenol	684	2018	80	64	80.0
2,4-Dimethylphenol	684	2018	80	60	75.0
2,4-Dinitrophenol	684	2018	80	69	86.3
2-Nitrophenol	684	2018	80	63	78.8
4-Nitrophenol	684	2018	80	31	38.8
Pentachlorophenol	684	2018	80	64	80 0
Phenol	684	2018	80	30	37.5
2,4,6-Trichlorophenol	684	2018	80	68	85.0
Surr: Phenol-d6	684	2018	200	73	36.5
Surr: 2-Fluorophenol	684	2018	200	99	49.5
Surr: 2,4,6-Tribromophenol	684	2018	200	163	91.5
ACID CMPDS - 8270B AQUEOUS					



### LABORATORY CONTROL STANDARD

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08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	Recovery
4-Chloro-3-methylphenol	684	1	80	67	83.8
2-Chlorophenol	684	1	80	60	75.0
2,4-Dichlorophenol	684	1	80	67	83.8
2,4-Dimethylphenol	684	1	80 .	62	77.5
2,4-Dinitrophenol	684	1	80	73	91.3
2-Methyl-4,6-dinitrophenol	684	1	80	75	93.8
2-Nitrophenol	684	1	80	66	82.5
4-Nitrophenol	684	1	80	30	37.5
Pentachlorophenol	684	1	80	69	86.3
Phenol	684	1	80	30	37.5
2,4,6-Trichlorophenol	684	1	80	69	86.3
Surr: Phenol-d6	684	1	200	72	36.0
Surr: 2-Fluorophenol	684	1	200	99	49.5
Surr: 2,4,6-Tribromophenol	684	1	200	181	90.5
ACID CMPDS - 8270B AQUEOUS					
4-Chloro-3-methylphenol	684	1	80	67	83.8
2-Chlorophenol	684	1	80	60	75.0
2,4-Dichlorophenol	684	1	80	67	83.8
2,4-Dimethylphenol	684	1	80	62	77.5
2,4-Dinitrophenol	684	1	80	73	91.3
2-Nitrophenol	684	1	80	66	82.5
4-Nitrophenol	684	1	80	30	37.5
Pentachlorophenol	684	1	80	69	86.3
Phenol	684	1	80 -	30	37.5
2,4,6-Trichlorophenol	684	1	80	69	86.3
Surr: Phenol-d6	684	1	200	72	36.0
Surr: 2-Fluorophenol	684	1	200	99	49.5
Surr: 2,4,6-Tribromophenol	684	1	200	181	90.5
BASE/NEUTRALS - 8270B AQUEOUS					
Acenaphthene	684	2018	80	72	90.0
Acenaphthylene	684	2018	80	74	92.5
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#### LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
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08/03/1999

	**					
	Prep	Run				
	Batch	Batch	Ťrue	Conc.	LCS	
Analyte	Number	Number	Conc.	Found	* Recovery	
Anthracene	684	2018	80	84	105.0	
Benzo(a)anthracene	684	2018	80	79	98.8	
Benzo(b) fluoranthene	684	2018	80	81	101.3	
Benzo(k)fluoranthene	684	2018	80	73	91.3	
Benzo(g,h,ı)perylene	684	2018	80	80	100.0	
Benzo(a)pyrene	684	2018	80	81	101.3	
Benzyl butyl phthalate	684	2018	80	76	95.0	
Bis(2-chloroethoxy)methane	684	2018	80	68	85.0	
Bis(2-chloroethyl)ether	684	2018	80	67	83.8	
Bis(2-chloro1sopropyl)ether	684	2018	80	60	75.0	
Bis(2-ethylhexyl)phthalate	684	2018	80	82	102.5	
4-Bromophenyl phenyl ether	684	2018	80	74	92.5	
2-Chloronaphthalene	684	2018	80	68	85.0	
4-Chlorophenyl phenyl ether	684	2018	80	72	90.0	
Chrysene	684	2018	80	78	97.5	
Dibenzo(a,h)anthracene	684	2018	80	74	92.5	
1,2-Dichlorobenzene	684	2018	80	57	71.3	
1,3-Dichlorobenzene	684	2018	80	58	72.5	
1,4-Dichlorobenzene	684	2018	80	57	71.3	
3,3'-Dichlorobenzidine	684	2018	80	77	96.3	
Diethyl phthalate	684	2018	80	69	86.3	
Dimethyl phthalate	684	2018	80	56	70.0	
2,4-Dinitrotoluene	684	2018	80	75	93.8	
2,6-Dinitrotoluene	684	2018	80	75	93.8	
Di-n-octyl phthalate	684	2018	80	79	98.8	
Fluoranthene	684	2018	80	78	97.5	
Fluorene	684	2018	80	74	92.5	
Hexachlorobenzene	684	2018	80	71	88.8	
Hexachlorobutadiene	684	2018	80	52	65.0	
Hexachlorocyclopentadiene	684	2018	80	44	55.0	
Hexachloroethane	684	2018	80	58	72.5	
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### LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	<pre>% Recovery</pre>
Indeno(1,2,3-cd)pyrene	684	2018	80	75	93.8
Isophorone	684	2018	80	67	83.8
Naphthalene	684	2018	80	64	80.0
Nitrobenzene	684	2018	80	69	86.3
N-Nitrosodimethylamine	684	2018	80	43	53.8
N-Nitrosodi-n-propylamıne	684	2018	80	67	83.8
N-Nitrosodiphenylamine	684	2018	80	72	90.0
Phenanthrene	684	2018	80	77	96.3
Pyrene	684	2018	80	79	98.8
1,2,4-Trichlorobenzene	684	2018	80	56	70.0
Surr: Nitrobenzene-d5	684	2018	100	91	91.0
Surr: 2-Fluorobiphenyl	684	2018	100	85	85 0
Surr: Terphenyl-d14	684	2018	100	94	94.0
BASE/NEUTRALS - 8270B AQUEOUS					
Acenaphthene	684	2018	80	72	90.0
Acenaphthylene	684	2018	80	74	92.5
Anthracene	684	2018	80	84	105.0
Benzo (a) anthracene	684	2018	80	79	98.8
Benzo(b)fluoranthene	684	2018	80	81	101.3
Benzo(k)fluoranthene	684	2018	80	73	91.3
Benzo(g,h,1)perylene	684	2018	80	80	100.0
Benzo (a) pyrene	684	2018	80	81	101.3
Benzyl butyl phthalate	684	2018	80	76	95.0
Bis(2-chloroethoxy)methane	684	2018	80	68	85.0
Bis(2-chloroethyl)ether	684	2018	80	67	83.8
Bis(2-chloroisopropyl)ether	684	2018	80	60	75.0
Bis(2-ethylhexyl)phthalate	684	2018	80	82	102.5
4-Bromophenyl phenyl ether	684	2018	80	74	92.5
2-Chloronaphthalene	684	2018	80	68	85.0
4-Chlorophenyl phenyl ether	684	2018	80	72	90.0
Chrysene	684	2018	80	78	97.5
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## LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	<pre>% Recovery</pre>
Dibenzo(a,h)anthracene	684	2018	80	74	92.5
1,2-Dichlorobenzene	684	2018	80	57	71.3
1,3-Díchlorobenzene	684	2018	80	58	72.5
1,4-Dichlorobenzene	684	2018	80	57	71.3
3,3'-Dichlorobenzidine	684	2018	80	77	96.3
Diethyl phthalate	684	2018	80	69	86.3
Dimethyl phthalate	684	2018	8Ó	56	70.0
2,4-Dinitrotoluene	684	2018	80	75	93.8
2,6-Dinitrotoluene	684	2018	80	75	93.8
Dı-n-octyl phthalate	684	2018	80	79	98.8
Fluoranthene	684	2018	80	78	97.5
Fluorene	684	2018	80	74	92.5
Hexachlorobenzene	684	2018	80	71	88 8
Hexachlorobutadiene	684	2018	80	52	65.0
<b>Hexachlorocyclopentadiene</b>	684	2018	80	44	55.0
Hexachloroethane	684	2018	80	58	72.5
Indeno(1,2,3-cd)pyrene	684	2018	80	75	93.8
Isophorone	684	2018	80	67	83.8
Naphthalene	684	2018	80	64	80.0
Nitrobenzene	684	2018	80	69	86.3
N-Nitrosodimethylamine	684	2018	80	43	53.8
N-Nitrosodi-n-propylamine	684	2018	80	67	83.8
N-Nitrosodiphenylamine	684	2018	80	72	90.0
Phenanthrene	684	2018	80	77	96.3
Pyrene	684	2018	80	79	98.8
1,2,4-Trichlorobenzene	684	2018	80	56	70.0
Surr: Nitrobenzene-d5	684	2018	1:00	91	91.0
Surr: 2-Fluorobiphenyl	684	2018	100	85	85.0
Surr: Terphenyl-d14	684	2018 -	100	94	94.0
BASE/NEUTRALS - 8270B AQUEOUS					
Acenaphthene	684	1	80	68	85.0



### LABORATORY CONTROL STANDARD

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08/03/1999

•	Prep	Run		`.'&	
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	Recovery
Acenaphthylene	684	1	80	68	85.0
Anthracene	684	1	80	75	93.8
Benzo(a) anthracene	684	1	80	75	93.8
Benzo(b)fluoranthene	684	1	, 80 -	72	90.0
Benzo(k) fluoranthene	684	1	80	68	85.0
Benzo(g,h,ı)perylene	684	1	80	87	108.8
Benzo(a)pyrene	684	1	80	75	93.8
Benzyl butyl phthalate	684	1	80	33	41.3
Bis(2-chloroethoxy)methane	684	1	80	66	82.5
Bis(2-chloroethyl)ether	684	1	80	66	82 5
Bis(2-chloroisopropyl)ether	684	1	80	67	83.8
Bis(2-ethylhexyl)phthalate	684	1	80	67	83.8
4-Bromophenyl phenyl ether	684	1	80	72	90.0
2-Chloronaphthalene	684	1	80	64	80.0
4-Chlorophenyl phenyl ether	684	1	80	70	87.5
Chrysene	684	1	80	73	91.3
Dibenzo(a,h)anthracene	684	1	80	, ", <b>81</b>	101.3
1,2-Dichlorobenzene	684	1	80	55	68.8
1,3-Dichlorobenzene	684	1	80	52	65.0
1,4-Dichlorobenzene	684	1	80	52	65.0
3,3'-Dichlorobenzidine	684	1	80	80	100.0
Diethyl phthalate	684	1	80	20	25.0
2,4-Dinitrotoluene	684	1	80	74	92.5
2,6-Dinitrotoluene	684	1	80	74	92.5
Di-n-octyl phthalate	684	1	80	65	81.3
Fluoranthene	684	1	80	74	92.5
Fluorene	684	1	80	70	87.5
Hexachlorobenzene	684	1	80	73	91.3
Hexachlorobutadiene	684	1	80	52	65.0
Hexachlorocyclopentadiene	684	1	80	29	36.3
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### LABORATORY CONTROL STANDARD

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414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	<pre>% Recovery</pre>
Hexachloroethane	684	1	80	48	60.0
Indeno(1,2,3-cd)pyrene	684	1	80	81	101.3
Isophorone	684	1	80	66	82.5
Naphthalene	684	1	80	61	76.3
Nitrobenzene	684	1	80	69	86.3
N-Nitrosodimethylamine	684	1	80	56	70.0
N-Nitrosodi-n-propylamine	684	1	80	70	87.5
N-Nitrosodiphenylamine	684	1	80	69	86.3
Phenanthrene	684	1	80	70	87.5
Pyrene	684	1	80	76	95.0
1,2,4-Trichlorobenzene	684	1	80	56	70.0
Surr: Nitrobenzene-d5	684	1	80	89	111.3
Surr: 2-Fluorobiphenyl	684	1	80	80	100.0
Surr: Terphenyl-d14	684	1	80	94	117.5
ACID CMPDS - 8270 NONAQUEOUS					
4-Chloro-3-methylphenol	515	1447	80	66	82.5
2-Chlorophenol	515	1447	80	61	76.3
2,4-Dichlorophenol	515	1447	80	62	77.5
2,4-Dimethylphenol	515	1447	80	59	73.8
2,4-Dinitrophenol	515	1447	80	77	96.3
2-Methyl-4,6-dinitrophenol	515	1447	80	73	91.3
4-Nitrophenol	515	1447	80	70	87.5
Pentachlorophenol	515	1447	80	64	80.0
Phenol	515	1447	80	61	76.3
2,4,6-Trichlorophenol	515	1447	80	63	78.8
Surr: Phenol-d6	515	1447	200	146	73.0
Surr: 2-Fluorophenol	515	1447	200	150	75.0
Surr: 2,4,6-Tribromophenol	<b>51</b> 5	1447	200	149	74.5
BASE/NEUTRALS-8270 NONAQUEOUS					
Acenaphthene	515	1447	80	66	82.5
Acenaphthylene	515	1447	80	62	77.5
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Westmont, IL 60559
Mr. David Pyles

08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	Recovery
Anthracene	515	1447	80	62	77.5
Benzo(a)anthracene	515	1447	80	66	82.5
Benzo(b)fluoranthene	515	1447	80	63	78.8
Benzo(k)fluoranthene	515	1447	80	61	76.3
Benzo(g,h,i)perylene	515	1447	80	75	93.8
Benzo(a)pyrene	515	1447	80	66	82.5
Benzyl butyl phthalate	515	1447	80	67	83.8
Bis(2-chloroethoxy)methane	515	1447	80	62	77.5
Bis(2-chloroethyl)ether	515	1447	80	64	80.0
Bis(2-chloroisopropyl)ether	515	1447	80	63	78.8
Bis(2-ethylhexyl)phthalate	515	1447	80	66	82.5
4-Bromophenyl phenyl ether	515	1447	80	61	76 3
2-Chloronaphthalene	515	1447	80	64	80.0
4-Chlorophenyl phenyl ether	515	1447	80	64	80.0
Chrysene	515	1447	80	65	81 3
Dibenzo(a,h)anthracene	515	1447	80	75	93.8
Di-n-butyl phthalate	515	1447	80	65	81.3
1,2-Dichlorobenzene	515	1447	80	61	76.3
1,3-Dichlorobenzene	515	1447	80	59	73.8
1,4-Dichlorobenzene	515	1447	80	60	75.0
3,3'-Dichlorobenzidine	515	1447	80	71	88.8
Diethyl phthalate	515	1447	80	68	85.0
Dimethyl phthalate	515	1447	80	66	82.5
2,4-Dinitrotoluene	515	1447	80	75	93.8
2,6-Dinitrotoluene	515	1447	80	70	87.5
Di-n-octyl phthalate	515	1447	80	71	88.8
Fluoranthene	515	1447	80	65	81.3
Fluorene	515	1447	80	66	82.5
Hexachlorobenzene	515	1447	80	59	73.8
Hexachlorobutadiene	515	1447	80	58	72.5
Hexachlorocyclopentadiene	515	1447	80	49	61.3
				-	



## LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	* Recovery
Hexachloroethane	515	1447	80	64	80.0
Indeno(1,2,3-cd)pyrene	515	1447	80	75	93.8
Isophorone	515	1447	80	63	78.8
Naphthalene	515	1447	. 80.	61	76.3
Nitrobenzene	515	1447	80 1	67	83.8
N-Nitrosodimethylamine	515	1447	80	49	61.3
N-Nitrosodi-n-propylamine	515	1447	<b>-</b> 80	61	76.3
N-Nitrosodiphenylamine	515	1447	80	66	82.5
Phenanthrene	515	1447	80	62	77.5
Pyrene	515	1447	80	63	78.8
1,2,4-Trichlorobenzene	515	1447	80	60	75.0
Surr. Nitrobenzene-d5	515	1447	100	82	82 0
Surr: 2-Fluorobiphenyl	515	1447	100	77	77.0
Surr: Terphenyl-d14	515	1447	100	73	73.0
VOLATILES - 8260 Aqueous					
Benzene		774	20.0	19.5	97.5
Bromodichloromethane		774	20.0	20.9	104.5
Bromoform		774	20.0	18.1	90.5
Bromomethane		774	20.0	18.6	93.0
Carbon tetrachloride		774	20.0	21.4	107.0
Chlorobenzene		774	20.0	19.6	98.0
Chlorodibromomethane		774	20.0	20.3	101.5
Chloroform		774	20.0	21.2	106.0
Chloromethane		774	20.0	18.6	93.0
1,2-Dichlorobenzene		774	20.0	21.2	106.0
1,3-Dichlorobenzene		774	20.0	20.3	101.5
1,4-Dichlorobenzene		774	20.0	20.3	101.5
1,1-Dichloroethane		774	20.0	20.4	102.0
1,2-Dichloroethane		774	20.0	21.3	106.5
1,1-Dichloroethene		774	20.0	20.6	103.0
trans-1,2-Dichloroethene		774	20.0	20.9	104.5



### LABORATORY CONTROL STANDARD

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Mr. David Pyles

08/03/1999

Prep Rus		Run	:		
·	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	<pre>% Recovery</pre>
1,2-Dichloropropane		774	20.0	20.6	103.0
cis-1,3-Dichloropropene		774	20.0	20.0	100.0
trans-1,3-Dichloropropene		774	20.0	19.3	96.5
Ethylbenzene		774	. 20.0	19.8	99.0
Methylene chloride		774	20.0	22.1	110.5
1,1,2,2-Tetrachloroethane		774	20.0	20.9	104.5
Tetrachloroethene		774	20.0	18.4	92.0
Toluene		774	20.0	19.8	99.0
1,1,1-Trichloroethane		774	20.0	21.4	107.0
1,1,2-Trichloroethane		774	20.0	20.0	100.0
Trichloroethene		774	20.0	20.5	102.5
Trichlorofluoromethane		774	20.0	21.0	105.0
Vinyl chloride		774	20.0	17.5	87.5
Surr: Dibromofluoromethane		774	50.0	51.4	102.8
Surr: Toluene-d8		774	50.0	48.9	97.8
Surr: 4-Bromofluorobenzene		774	50.0	. 48.0	96.0
VOLATILES - 8260 NonAqueous			i		
Вепzеле		907	20.0	18.0	90.0
Bromodichloromethane		907	20.0	20.0	100.0
Bromoform		907	20.0	18.0	90.0
Bromomethane		907	20.0	19.0	95.0
Carbon tetrachloride		907	20.0	22.0	110.0
Chlorobenzene		907	20.0	17.0	85.0
Chlorodibromomethane		907	20.0	20.0	100.0
Chloroform		907	20.0	23.0	115.0
Chloromethane		907	20.0	19.0	95.0
1,2-Dichlorobenzene		907	20.0	19.0	95.0
1,3-Dichlorobenzene		907	20.0	17.0	85.0
1,4-Dichlorobenzene		907	20.0	18.0	90 0
1,1-Dichloroethane		907	20.0	22.0	110.0
1,2-Dichloroethane		907	20.0	22.0	110.0



#### LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep Batch	Run Batch	ړ True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	* Recovery
1,1-Dichloroethene		907	20.0	22.0	110.0
trans-1,2-Dichloroethene		907	20.0	22.0	110.0
1,2-Dichloropropane		907	20.0	19.0	95.0
cis-1,3-Dichloropropene		907	20.0	19.0	95.0
trans-1,3-Dichloropropene		907	20.0	18.0	90.0
Ethylbenzene		907	20.0	18.0	90.0
Methylene Chloride		907	20.0	24.0	120.0
1,1,2,2-Tetrachloroethane		907	20.0	23.0	115.0
Tetrachloroethene		907	20.0	21.0	105.0
Toluene		907	20.0	18.0	90.0
1,1,1-Trichloroethane		907	20.0	22.0	110.0
1,1,2-Trichloroethane		907	20.0	19.0	95.0
Trichloroethene		907	20.0	19.0	95.0
Trichlorofluoromethane		907	20.0	23.0	115 0
Vinyl chloride		907	20.0	19.0	95.0
Surr: Dibromofluoromethane		907	50.0	56.0	112.0
Surr: Toluene-d8		907	50.0	51.0	102.0
Surr: 4-Bromofluorobenzene		907	50.0	50.0	100.0



#### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Chromium, hexavalent		1520	0.093	<0.010	0.100	mg/L	93.0	0.092	0.100	mg/L	92.0	1.1
TCLP-Arsenic, ICP	2585	4425	1.00	<0.20	1.00	mg/L	100.0	1.00	1.00	mg/L	100.0	0.0
TCLP-Arsenic, ICP	2593	4437	0.954	<0.20	1.00	mg/L	95.4	0.933	1.00	mg/L	93.3	2.2
TCLP-Barium, ICP	2585	4427	1.00	0.068	1.00	mg/L	93.2	1.00	1.00	mg/L	93.2	0.0
TCLP-Barium, ICP	2593	4438	0.881	<0.020	1.00	mg/L	88.1	0.864	1.00	mg/L	86.4	1.9
TCLP-Cadmium, ICP	2585	4398	0.500	0.052	0.500	mg/L	89.6	0.500	0.500	mg/L	89.6	0.0
TCLP-Cadmium, ICP	2593	4411	0.423	<0.010	0.500	mg/L	84.6	0.419	0.500	mg/L	83.8	1.0
TCLP-Chromium, ICP	2585	4407	1.00	0.153	1.00	mg/L	84.7	1.00	1.00	mg/L	84.7	0.0
TCLP-Chromium, ICP	2593	4419	0.874	<0.040	1.00	mg/L	87.4	0.856	1.00	mg/L	85.6	2.1
TCLP-Lead, ICP	2585	4614	1.00	<0.200	1.00	mg/L	100.0	1.00	1.00	mg/L	100.0	0.0
TCLP-Lead, ICP	2593	4625	0.859	<0.200	1.00	mg/L	85.9	0.849	1.00	mg/L	84.9	1.2
TCLP-Mercury, CVAA	1350	1223	0.00265	<0.0002	0.0025	mg/L	106.0	0.0026	0.0025	mg/L	104.4	1.5
TCLP-Mercury, CVAA	1350	1223	0.00532	<0.0004	0.005	mg/L	106.4	0.0050	0.005	mg/L	100.6	5.6
TCLP-Mercury, CVAA	1353	1230	0.00267	<0.0002	0.0025	mg/L	106.8	0.0026	0.0025	mg/L	104.4	2.3
TCLP-Mercury, CVAA	1353	1230	0.00548	<0.0004	0.005	mg/L	109.6	0.0054	0.005	mg/L	108.2	1.3
TCLP-Selenium, ICP	2585	4230	1.00	<0.20	1.00	mg/L	100.0	1.00	1.00	mg/L	100.0	0.0
TCLP-Selenium, ICP	2593	4242	0.945	<0.20	1.00	mg/L	94.5	0.933	1.00	mg/L	93.3	1.3
TCLP-Silver, AA	1237	1153	1.09	<0.040	1.0	mg/L	109.0	1.02	1.00	mg/L	102.0	6.6
TCLP-Silver, AA	1240	1160	1.02	<0.040	1 0	mg/L	102.0	1.07	1.0	mg/L	107.0	4.8

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



#### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
ACID CMPDS - 8270 NONAQUEOU												
4-Chloro-3-methylphenol	515	1447	2,350	<361	2,890	ug/kg	81.4	2,460	2,890	ug/kg	85.2	4.6
2-Chlorophenol	515	1447	2,020	<361	2,890	ug/kg	70 1	2,160	2,890	ug/kg	75.0	6.8
2,4-Dimethylphenol	515	1447	2,120	<361	2,890	ug/kg	73.5	2,270	2,890	ug/kg	78.8	7.0
4-Nitrophenol	515	1447	2,550	<1,750	2,890	ug/kg	88.3	2,640	2,890	ug/kg	91.7	3.8
Pentachlorophenol	515	1447	2,200	<1,750	2,890	ug/kg	76.1	2,390	2,890	ug/kg	83.0	8.7
Phenol	515	1447	2,090	<361	2,890	ug/kg	72.3	2,230	2,890	ug/kg	77.3	6.7
VOLATILES - 8260 NonAqueous												
Benzene		907	76	<402	80.3	ug/kg	95.0	76	80.3	ug/kg	95.0	0.0
Bromodichloromethane		907	80	<402	80.3	ug/kg	100.0	76	80.3	ug/kg	95.0	5.1
Bromoform		907	64	<402	80.3	ug/kg	80.0	68	80.3	ug/kg	85.0	6.1
Bromomethane		907	60	<402	80.3	ug/kg	75.0	56	80.3	ug/kg	70.0	6.9
Carbon tetrachloride		907	88	<402	80.3	ug/kg	110.0	80	80.3	ug/kg	100.0	9.5
Chlorobenzene		907	76	<402	80.3	ug/kg	95.0	76	80.3	ug/kg	95.0	0.0
Chlorodibromomethane		907	76	<402	80.3	ug/kg	95.0	72	80.3	ug/kg	90.0	5.4
Chloroform		907	10,800	2,570	7,870	ug/kg	105.1	10,400	7,870	ug/kg	100.0	3.8
Chloromethane		907	88	<402	80.3	ug/kg	110.0	84	80.3	ug/kg	105.0	4.7
1,2-Dichlorobenzene		907	12,400	4,420	7,870	ug/kg	102.0	12,400	7,870	ug/kg	102.0	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

Page 62 of 64



#### MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

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Analyte	Prep Batch Number	Run Batch Number	Matrıx Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
1,3-Dichlorobenzene		907	76	<402	80.3	ug/kg	95.0	76	80.3	ug/kg	95.0	0.0
1,4-Dichlorobenzene		907	76	<402	80.3	ug/kg	95.0	76	80.3	ug/kg	95.0	0.0
1,1-Dichloroethane		907_	84	<402	80.3	ug/kg	105.0	84	80.3	ug/kg	105.0	0.0
1,2-Dichloroethane		907	84	<402	80.3	ug/kg	105.0	84	80.3	ug/kg	105.0	0.0
1,1-Dichloroethene		907	84	<402	80.3	ug/kg	105.0	80	80.3	ug/kg	100 0	4.9
trans-1,2-Dichloroethene		907	80	<402	80.3	ug/kg	100.0	76	80.3	ug/kg	95.0	5.1
1,2-Dichloropropane		907	84	<402	80.3	ug/kg	105.0	84	80.3	ug/kg	105.0	0.0
cis-1,3-Dichloropropene		907	72	<402	80.3	ug/kg	90.0	72	80.3	ug/kg	90.0	0.0
trans-1,3-Dichloropropene		907	68	<402	80.3	ug/kg	85 0	68	80.3	ug/kg	85 0	0.0
Ethylbenzene		907	80	<402	80.3	ug/kg	100.0	80	80.3	ug/kg	100.0	0.0
Methylene Chloride		907	96	<4,020	80.3	ug/kg	120.0	96	80.3	ug/kg	120.0	0.0
1,1,2,2-Tetrachloroethane		907	72	<402	80.3	ug/kg	90.0	76	80.3	ug/kg	95.0	5.4
Tetrachloroethene		907	10,800	3,530	7,870 -	ug/kg	92.9	10,800	7,870	ug/kg	92.9	0.0
Toluene		907	9,240	1,530	7,870	ug/kg	98.0	8,840	7,870	ug/kg	92.9	4.4
1,1,1-Trichloroethane		907	9,640	1,200	7,870	ug/kg	107.1	9,240	7,870	ug/kg	102.0	4.3
1,1,2-Trichloroethane		907	76	<402	80.3	ug/kg	95.0	76	80.3	ug/kg	95.0	0.0
Trichloroethene		907	13,700	5,620	7,870	ug/kg	102.0	13,700	7,870	ug/kg	102.0	0.0
Trichlorofluoromethane		907	80	<402	80.3	ug/kg	100.0	76	80.3	ug/kg	95.0	5.1
Vinyl chloride		907	76	<402	80.3	ug/kg	95.0	72	80.3	ug/kg	90.0	5.4

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



#### **DUPLICATES**

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

08/03/1999

NET Job Number: 99.07582

	Prep	Run	$I^{z}$			
	Batch	Batch	Original	Duplicate		
Analyte	Number	Number	Analysis	Analysis	Units	RPD
рН		1996	7.05	7.06	units	0.1
pH		2004	7.54	7.55	units	0.1
pH, Non-Aqueous		270	7.65	7.63	units	0.3
pH, Non-Aqueous		270	8.86	8.86	units	0.0
pH, Non-Aqueous		270	7.60	7.51	units	1.2
Solids, Total		2852	78.2	77.6	*	0.8

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

#### TestAmerica, Bartlett Division

		KEY TO ABBREVIATIONS and METHOD REFERENCES
<		ess than; When appearing in the results column indicates the analyte was not detected at or bove the reported value.
mg/L		oncentration in units of milligrams of analyte per liter of sample. Measurement used for queous samples. Can also be expressed as parts per million (ppm).
ug/g		oncentration in units of micrograms of analyte per gram of sample. Measurement used for on-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L		oncentration in units of micrograms of analyte per liter of sample. Measurement used for queous samples. Can also be expressed as parts per billion (ppb).
ug/Kg		oncentration in units of micrograms of analyte per kilogram of sample. Measurement used for on-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP		nese initials appearing in front of an analyte name indicate that the Toxicity Characteristic eaching Procedure (TCLP) was performed for this test.
Surr:		nese initials are the abbreviation for surrogate. Surrogates are compounds that are chemically imilar to the compounds of interest. They are part of the method quality control requirements.
*	: Pe	To convert ppm to %, divide the result by 10,000.  To convert % to ppm, multiply the result by 10,000.
ICP	: Ir	dicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: In	dicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: In	dicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL		actical Quantitation Limit; the lowest level that can be reliably achieved within specified mits of precision and accuracy during routine laboratory operating conditions.
Method Refere	ences	
(1)		s 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846,

(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846,
	3rd Edition, 1986.

- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989. (4)
- Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis (5) of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- Methods 500 through 599: see "Methods for the Determination of Organic Compounds in (6) Drinking Water, " USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

TESTAMETICA INC.

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HIGAN AT 1-800-292 4708 OR OUT OF STATE AT \$17-373-7880 AND THE NATIONAL RESPONSE

#### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

#### DO NOT WRITE IN THIS SPACE

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Required	under	autho	rity of	Рa
and Part	121	of Act	451,	199
amended				

Failure to file may subject you to nal and/or civil penalties under S 324 11151 or 324 12116 MCL

ese:	print o						orm Approved OM	B No 2050	-0039
	1	IFORM HAZARDOUS WASTE MANIFEST	1 Generator's US	EPA ID No 88 992	Manifest Occument No 000 36	2 Pag of			e shaded are d by Feder
66	Gen 30 INC	erator's Name and Mailing Addre	ss	<u> </u>		A.St	ate Manifest D		
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De	MCAIM	5, MI 40111	LÄH	D 000 724 831			800-50	Section 1	
11.	US E	OOT Description (including Proper ID NUMBE	Shipping Name, Ha		12 Cont	Type	13 Total Quantity		Waste :
8.	X	RQ, Hazardous Waste Solid, n.o.		ne,	140	Type	25.6	VVV VO 12	
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15.	Spec	al Handling Instructions and Addi	tional Information	Comment of Assert St. World St. Williams	CANCEL METAL STREET	orchesta.	m.Veril ("Beth utchinger)	els to st.	Author-additional att.
24	HR. E	MERGENCY#:							
	dassifi	ATOR'S CERTIFICATION: I hereby declare ed, packed, marked, and labeled, and are in all	respects in proper condit	ion for transport by highw	ay according to a	pplicable	International and n	ational gov	ernment regulations
	to be	a large quantity generator, I certify that economically practicable and that I have	selected the practicab	le method of treatment,	, storage, or di	sposal d	currently available	to me wi	nich minimizes the
		and future threat to human health and ion and select the best waste management me			ty generator, I	have ma	ede a good faith	effort to r	Date Date
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$\mathcal{L}$	<u> 400</u>			p m	ou s	1 1	prince	) 6	11100
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ILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN R AT 1-800-424-8502 24 HOURS PER DAY

TRANSPORTER

FACI

### LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to: Michigan Disposal Waste Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831

Wayne Disposal, Inc. Subritle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 048 090 633

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Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Na	me 6500 INDUSTRI	deiH le	WAY Genera	tor USEPA ID No	IND040888992
Generator Ad	dress 6499 INDU	strial	Highway,	GARY IN	46406
State Manifest					M1798190Z
		•	Instructions		)
	n I identify all USEPA hazardo				*
	2, choose the appropriate trea				
• In Column	n 3, enter the appropriate Sub be treated using one of the alte	category, il	applicable, and al	so enter "Contamina r provided by 768 490	ted Soil" or "Debris" if the
					( ( ( ( debra) ).
	14, circle the letter of the appro	-			D. ( )
	1 5, for F001-F005, F039, D001- rce Guide—LDR/UHC Constitu				e Reference Number(s) from the
EQ Resou	TE Guide-EDROHC Constitu	ent Lable (	or any consuctents	subject to treatment	in your waste stream.
	·	<u> </u>		<del>,                                      </del>	
Munufest Line Item	1. USEPA HAZARDOUS WASTE	NWW or WY	SUBCATEGORY	HOW MUST THE WASTE BE MANAGED?	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039,
<b> </b>	CODE(S)	<del> </del>		(Circle one)	D001-D043, Soil & Debris westes.
11.A	D040	Oww		G H I J K L M S	206,188
11.8		D NWW		A B C D E F G H I J K L M S	,
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11.D	·	D NWW		A B C D E F G H I J K L M S	
knowledge and	_ ^	_	•	46WT	nd accurate to the best of my I FOR 6500 BIAL HIGHWAY 6RD
Printed Name	ature Thomas J. R.	PSIEWI	L7.	Date	-17-2000

#### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 Halicized options:

Printed Name

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A (CORCLE ONE) (CORCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (COLCLE OVE)

AS PROVIDED BY 268,49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

have been proper	erify the wastes specified on Manifest #1179819  ly disposed of in accordance with all local, state and of "means either: 1) Burial or 2) Processed as specified in	federal regulations.
FACILITY NAME. (Please check one)	Michigan Disposal Waste Treatment Plant (EPAID # MID000724831)	Wayne Disposal, Inc. (EPAID. # MID048090633)
ADDRESS	49350 N I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER	1-800-592-5489	
FAX NUMBER	1-800-592-5329	•
$\cap$		

Authorized Signature:





#### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

	DO N	UI WHII	F IN 1 LIS	SPACE	
ATT.		DIS. $\square$	REJ.		PR. 🗆

Required	unde	r autho	rity of	Part
and Part	121	of Act	451,	1994,
bebnema				

Failure to file may subject you to crir nal and/or civil penalties under Secti 324 11151 or 324 12116 MCL

A lease pri	UNIFORM HAZARDOUS WASTE MANIFEST	1 Generator's IND 040	US EPA ID No 888 992	Manifest ument No 200 3	1 2 Pa		ation in the shaded area required by Foder
6500	Generator's Name and Mailing Addre INDUSTRIAL HIGHWAY I <b>Industrial Highway</b>	ss		<u> </u>	A.S	11 7 g g	ocument Number
	IN 46406	1-8357			B.S	ate Generator	FID TO
5. 1			6. US EPA ID Num   ICO 007814			ate Transporte	
7 7	ransporter 2 Company Name	008	8. US EPA ID Num		ES	ale Transporte	one 1-800-851-80 r.a.ID
9. 0	Designated Facility Name and Site Ad	dress	10. US EPA ID Num	ber		nsporter's Pho ate Facility's	ne and the second
Michi	gan Disposali Waste Treatment Plant 0 N. I-94 Service Drive		n in the second second				
	ville, MI 48111	i	MID 000 724 831		Kerney	acility's Phone	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA
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A D T O R							
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	MDI APPROVAL # 010700ME. ERG # 171	tional Informati					Wastes Listed Ab A. B. C. D.
24 H	R. EMERGENCY#:		44.				
cla If to	NERATOR'S CERTIFICATION: I hereby declare issified, packed, marked, and labeled, and are in all I am a large quantity generator, I certify that be economically practicable and that I have esent and future threat to human health and	respects in proper of I have a program selected the pract the environment;	ondition for transport by highway a in place to reduce the volume ticable method of treatment, at OR; If I am a small quantity of	ccording to and toxic orage, or	applicable ity of wa disposal	e international and r ste generated to i currently available	ational government regulational government regulation degree I have determ to me which minimizes affort to minimize my was affort to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize my was a second to minimize
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F A C	screpancy Indication Space	<del> </del>	<u> </u>				
20 Fa	cility Owner or Operator. Certification of	of receipt of haz	ardous materials covered b	y this ma	inifest e	xcept as noted	IN Date
Pri	nted/Typed Name		Signature	-	<del></del>	· · · · · · · · · · · · · · · · · · ·	Month Day Yea

## Land Disposal Restriction & Certification Form 6/98

Please check the facility you are shipping to: Michigan Disposal Waste Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831

Wayne Disposal, Inc. Subtitle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blanding & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

te Manifest No.			Manifes	st Doc. No	MI 7981903
		. 1	NSTRUCTIONS		•
In Column I id	lentify all USEPA hazar	dous waste co	ies that apply to th	is waste shipment.	•
	hoose the appropriate t				
In Column 3,	enter the appropriate S	ubcategory, if	applicable, and al	so enter "Contamina encovided by 768 49%	ted Soil" or "Debris" if the c) (soil) or 268.45 (debris).
	eated using one of the a ircle the letter of the ap				c) (3011) 01 200.43 (debits).
	- ·		- ·		e Reference Number(s) from
	Guide-LDR/UHC Const				
		1	,		•
Manufest	l. USEPA	2. NWW	J. SUBCATEGORY	HOW MUST THE	5. REFERENCE NUMBER(S
Line Item	HAZARDOUS	or WAY		WASTE BE MANAGED?	contained in the waste.
# Hine frem		or	SUBCATEGORI	WASTE BE MANAGED? (Circle one)	1
line frem	HAZARDOUS WASTE	or	-	WASTE BE MANAGED? (Circle age)  A B C D E F C H I J K L M S	contained in the waste. Complete for F001-F005, F037
a	HAZARDOUS WASTE CODE(S)	WW.	-	WASTE BE MANAGED? (Circle one)  A B C D E F C H I J K L M S A B C D E F C H I J K L M S	contained in the waste. Complete for F001-F005, F037 D001-D043, Soil & Debris wast
11.4	HAZARDOUS WASTE CODE(S)	NWW ON WWW	-	WASTE BE MANAGED? (Circle age)  A B C D E F C H I J K L M S  A B C D E F C H I J K L M S  A B C D E F C H I J K L M S  A B C D E F C H I J K L M S	contained in the waste. Complete for F001-F005, F037 D001-D043, Soil & Debris wast
11.A	HAZARDOUS WASTE CODE(S)	O NWW		WASTE BE MANAGED? (Circle ode)  A B C D E F C H I J K L M S A B C D E F C H I J K L M S A B C D E F C H I J K L M S	contained in the waste. Complete for F001-F005, F037 D001-D043, Soil & Debris wast
11.A 11.B 11.C	HAZARDOUS WASTE CODE(S)  DOHO	NWW		WASTE BE MANAGED? (Circle ode)  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S	contained in the waste. Complete for F001-F005, F037 D001-D043, Soil & Debris wast

#### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A S. (COLCLE ONT) (CONCLE ONE) CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CERCLE ONT) AS PROVIDED BY 268,49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

"Disposed of	disposed of in accordance with all local, state an "means either: 1) Burial or 2) Processed as specified in	•
FACILITY NAME (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D # MID000724831)	Wayne Disposal, Inc. (EPA I.D # MID048090633)
ADDRESS	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER	1-800-592-5489	
FAX NUMBER	1-800-592-5329	



### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

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ATT.	" DIS.		REJ.	

amended
Failure to file may subject you to

Form Approved OMB No. 2050-0039

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nal and/or civil penalties under Se 324 11151 or 324 12116 MCL.

Required under authority of Part and Part 121 of Act 451, 1994

	UNIFORM HAZARDOUS	1. Generator's	JS EPA ID No.	Manifest	2 Pa	e I Inform	MB No. 2050	he shaded a
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l	9 Designated Facility Name and Site Michigan Disposall Waste Treatment Plant	Address 1	O. US EPA ID	Number	G. St	ate Facility's	ID,	
l	49350 N. I-94 Service Drive	* < 7.			HRE	cility's Phone	i da ka	
l	Belleville, MI 48111	L	MID 000 724 83	,		800-59	220016-224	o din p
İ	11. US DOT Description (including Prope	er Shipping Name,	Hazard Class, and	12.Conta	iners	13. Total		I. Waste
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### Land Disposal Restriction & Certification Form 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

O Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

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ate Manifest N	0	<del></del>	Manife	st Doc. No	· · · · · · · · · · · · · · · · · · ·
		•	Instructions		•
In Column I	identify all USEPA hazar			his waste shipment.	•
	, choose the appropriate ti				rater (WW). em
In Column 3	, enter the appropriate Si	ubcategory, if	applicable, and a	lso enter "Contamina	ted Soil" or "Debris" if the
					c) (soil) or 268.45 (debris).
	, circle the letter of the app				a Dafaranca N'umbantal Sura
	, tor Foot-Roos, Rosy, Doi : Guide-LDR/UHC Const				e Reference Number(s) from in your waste stream.
•		i	•		•
Munifest	1. USEPA	Z. NWW	J. SUBCATEGORY	4.	5. REFERENCE NUMBER(S
Line Item	USEPA				
#	HAZARDOUS	or	JOBCKILGONI	HOW MUST THE WASTE BE	of Hazardous Constituents contained in the waste.
			JOBERTESONT		contained in the waste. Complete for F001-F005, F039
*	HAZARDOUS WASTE CODE(S)	WV	30000720007	WASTE BE MANAGED? (Circle one)  (A) B C D E F	contained in the waste. Complete for F001-F005, F039
	HAZARDOUS WASTE	or	-	WASTE BE MANAGED? (Circle one)  (A) B C D E F C R I J K L M S	
*	HAZARDOUS WASTE CODE(S)	M.M.	-	WASTE BE MANAGED? (Circle one)  A B C D E F C H I J K L	contained in the waste. Complete for F001-F005, F039 D001-D043, Soil & Debris waste
11.A	HAZARDOUS WASTE CODE(S)	MW DWW	-	WASTE BE MANAGED? (Circle one)  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S	contained in the waste. Complete for F001-F005, F039 D001-D043, Soil & Debris waste
11.A	HAZARDOUS WASTE CODE(S)	D WWW		WASTE BE MANAGED? (Circle one)  A B C D E F C H I J K L M S A B C D E F G H I J K L M S A B C D E F G H I J K L M S	contained in the waste. Complete for F001-F005, F039 D001-D043, Soil & Debris waste
11.A	HAZARDOUS WASTE CODE(S)	O WWW		WASTE BE MANAGED? (Circle one)  A B C D E F C R I J K L M S A B C D E F C H I J K L M S A B C D E F	contained in the waste. Complete for F001-F005, F039 D001-D043, Soil & Debris waste
11.A	HAZARDOUS WASTE CODE(S)	D WWW		WASTE BE MANAGED? (Circle one)  A B C D E F C H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S	contained in the waste. Complete for F001-F005, F039 D001-D043, Soil & Debris waste
11.A 11.B	HAZARDOUS WASTE CODE(S)	WW OWW OWW OWW OWW		WASTE BE MANAGED? (Circle one)  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S  A B C D E F G H I J K L M S	contained in the waste. Complete for F001-F005, F039 D001-D043, Soil & Debris waste

#### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 naticized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A. (CORCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS.

(CORCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to verify the wastes specified on Manifest # MI 7981904  have been properly disposed of in accordance with all local, state and federal regulations.  "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.						
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPAID # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)				
ADDRESS.	49350 N I-94 Service Drive Belleville, Michigan 48111					
PHONE NUMBER	1-800-592-5489	••				
FAX NUMBER:	1-800-592-5329					
Authorized Signature	MLay					





# WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO	NOT	WRITE	IN	THIS	<b>SPACE</b>
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I THIS SPACE	Failure to file may subject you to crit nal and/or civil penalties under Secti 324 11151 or 324,12116 MCL
RFJ I PRI I	

Required under authority of Part 1 and Part 121 of Act 451, 1994, amended

Form Approved OMB No 2050-0039 Please print or type Generator's US EPA ID No Manifest 2 Page 1 Information in the shaded areas UNIFORM HAZARDOUS Document No is not required by Federal 040 888 992 WASTE MANIFEST IND 3 Generator's Name and Mailing Address A State Manifest Document Number мі. 7981905 6500 INDUSTRIAL HIGHWAY 1-800-292-4706 OR OUT OF STATE AT \$17-373-7660 AND THE NATIONAL RESPONSE 6499 Industrial Highway B. State Generator's ID Gary IN 46406 Phone ( 5. Transporter 1 Company Name US EPA ID Number C. State Transporter's ID BEELMAU TRUCKING Distransporter sylphone 1-800-851-885 Transporter 2 Company Name E. State Transporter's ID (658) F. Transporter's Phone G State Facility's IID 9. Designated Facility Name and Site Address US EPA ID Number Michigan Disposali Waste Treatment Plant 49350 N. I-94 Service Drive H. Facility's Phone Belleville, MI 48111 800-592-5489 LMID_000_724_831 II Waste 12 Containers 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). Total Unit Type Quantity 25.98 a. Χ, RQ, Hazardous Waste Solid, n.o.s., (Triohioroethylene, N E Tetrachioroethylene)9,NA 3077,PG III A b 0 Ç. A Ä d z 13. Additional Descriptions for Materials Listed MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, DAY. Wastes Listed Above 11A MDI APPROVAL # 010700ME B. B. C. C. C. ERG # 171 Carry 44 Factor 0.73%的现在分词 15 Special Handling Instructions and Additional Information 24 HR. EMERGENCY #: 219-944-8357 16. GENERATOR'S CERTIFICATION. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; If I am a small quantity generator, I have made a good faith effort to minimize my waste Date generation and select the best waste management method that is available to me and that I can afford. HOUT FUZOO Signature Printed/Typed Name Month Day 9/1/17/00 THOMAS J. RYSIUNICZ DOHEWYGROUP 17. Transporter 1 Acknowledgement of Receipt of Materials TRANSPORTER Printed/Typed Name Month Day Year -S MUST BE REPORTED TO AT 1-800-424-8802 24 HOURS Signatuj 101/1/171010 18. Transporter 2 Acknowledgement of Receipt of Materials Date Month Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space FACI Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Printed/Typed Name Month Day Signature Year



### LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA 1D # MID 060 975 844

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			st Doc. No	
	·	INSTRUCTIONS		•
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iter the appropriate 5	ubcategory, if	applicable, and al	so enter "Contamin provided by 268.49	nated Soil" or "Debris" if the
				(-) (san) or zoor-o (acora).
				the Reference Number(s) from
	,			
l. USEPA	2. NWW	3. SUBCATEGORY	HOW MUST THE	5. REFERÊNCE NUMBER(S of Hazardous Constituents
HAZARDOUS	or,	/	WASTE BE	contained in the waste.
CODE(S)	WW		(Circle one)	Complete for F001-F005, F039 D001-D043, Soil & Debris wasn
	LYNWW	ià	ABCDEF GRIJKL	
D040	□ ww		M S	206,188
	O NWW	-	CHIJKL	
	OWW	<del></del>		
	O NWW		CHIJKL	
			ABCDEF	
	O WW		M S	
all information submit	ted on this and	l all associated doc	uments is complete	and accurate to the best of my
	noise the appropriate to nter the appropriate Sested using one of the ap- rele the letter of the ap- r F001-F005, F039, Do- uide-LDR/UHC Constant 1. USEPA HAZARDOUS WASTE	entify all USEPA hazardous waste concose the appropriate treatability grounder the appropriate Subcategory, if eated using one of the alternative treated using one of the appropriate parameter the letter of the appropriate parameter foot-F005, F039, D001-D043, Debruide-LDR/UHC Constituent Table for USEPA HAZARDOUS OF WASTE CODE(S)	noise the appropriate treatability group: Non-Wastewanter the appropriate Subcategory, if applicable, and alested using one of the alternative treatment technologies rele the letter of the appropriate paragraph from Pages of F001-F005, F039, D001-D043, Debris & Contaminates uide-LDR/UHC Constituent Table for any constituents  1. 2. 3. Subcategory  USEPA NWW SUBCATEGORY  HAZARDOUS OF WWY  CODE(S)  DOHO WW	entify all USEPA hazardous waste codes that apply to this waste shipment.  1003e the appropriate treatability group: Non-Wastewater (NWW) or Waste on the appropriate Subcategory, if applicable, and also enter "Contaminated using one of the alternative treatment technologies provided by 268.45 role the letter of the appropriate paragraph from Pages 1-2 of this form.  11.

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

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AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

	erify the wastes specified on Manifest # MT 79  ly disposed of in accordance with all local, state and	
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 4	10 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA 1 D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	* **
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
,		



#### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

DO NOT WRITE IN THIS SPACE

ATT.

DIS.	REJ.	PR.□

Required under authority of Pa and Part 121 of Act 451, 199 amended

Failure to file may subject you to nal and/or civil penalties under S 324 11151 or 324 12116 MCL

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### Land Disposal Restriction & Certification Form 6/98

Mease check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

		ess 6499 TNO		_	st Doc. No. M	
•	In Column 1	identify all USEPA hazard		INSTRUCTIONS  des that apply to the	nis waste shipment.	
•	In Columa 2	, choose the appropriate tr	atability gro	up: Non-Wastewa	ter (NWW) or Wastev	·
		s, enter the appropriate Su treated using one of the all				ted Soil" or "Debris" if the :) (soil) or 268.45 (debris).
•	In Column 4	, circle the letter of the app	ropriate para	igraph from Pages	1-2 of this form.	
	EQ Resource	, for F001-F005, F039, D00 e Guide-LDR/UHC Constit				e Reference Number(s) from the in your waste stream.
	Munifest Line I fem #	USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WY	SUBCATEGORY	HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
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#### HOW MIST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

(CONCIL ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CONCIL ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

## This certificate is to verify the wastes specified on Manifest # MI 7981906 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq. Michigan Disposal Waste Treatment Plant Wayne Disposal, Inc. **FACILITY NAME** (EPA I.D # MID000724831) (EPA I.D. # MID048090633) (Please check one) **ADDRESS** 49350 N. I-94 Service Drive Belleville, Michigan 48111 PHONE NUMBER 1-800-592-5489 FAX NUMBER 1-800-592-5329 Authorized Signature





#### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

#### DO NOT WRITE IN THIS SPACE

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ATT.	DIS. 🗆	REJ.		>

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended

Failure to file may subject you to criminal and/or civil penalties under Section 324 11151 or 324 12116 MCL.

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1	5. Spec	ial Handling Instructions and Add	litional Information					<u></u>	
2	4 HR. I	EMERGENCY#: 219-9	1182 57						
		21/ /	44 053/						
-	É orure	NATOR'S CERTIFICATION. I hereby declar	a that the contents of this consignment	nt era fully e	nd accura	taly dags	rihed shove by ne	oner shi	nning name and
'	classifi	ed, packed, marked, and labeled, and are in all n a large quantity generator, I certify tha	I respects in proper condition for transport	by highway ac	cording to	applicable	international and n	ational go	overnment regulation
	to be	economically practicable and that I have t and future threat to human health and	selected the practicable method of t	reatment, sto	rage, or c	lisposal	currently available	to me	which minimizes
_	genera	tion and select the best waste management m	ethod that is available to me and that I can						Date
1	Printe	nd/Typed Name MAS J. RYSIEWICZ -	TEXT FOR 6500 Signature	2/1	1	R	11011111	M L	Ionth Day Ye. <b>0:/ /:7 0</b> :
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20	) Facilit	y Owner or Operator Certification	of receipt of hazardous materials	covered by	this ma	nifest e	xcept as noted	ın _	
<u> </u>		d/Typed Name	Signature					M	Daie onth Day Yea
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į .								- 1	11111

## LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID# MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

ate Manifest No	ss_ 6499 IND	.,,,,,,,,	مانده ۱۳ از از از از از از از از از از از از از	st Doc. No	I 7981907
are laraminest inc	)· <u></u>	<del></del>		St Doc. No	
		. 1	INSTRUCTIONS		•
In Column 1	identify all USEPA hazar	dous waste co	des that apply to th	is waste shipment.	•
	choose the appropriate to	• •	•		
In Column 3,	enter the appropriate S	ubcategory, if	applicable, and al	so enter "Contamina	ted Soil" or "Debris" if the
					c) (soil) or 268.45 (debris).
	circle the letter of the app		, 1,		D. 6 . 11 . 41 . 41 . 4
	for F001-F005, F039, DB Guide-LDR/UHC Const				e Reference Number(s) from the source waste stream.
2011400.00	04144-2010011000411	1	',		an Joan Maste Stream!
Manufest	1.	2.	3.	4.	5. REFERENCE NUMBER(S)
Line Item	USEPA	NWW	SUBCATEGORY	HOW MUST THE	of Hazardous Constituents
Line Item *	HAZARDOUS WASTE	MAN or NAM	SUBCATEGORY	WASTE BE MANAGED?	contained in the waste. Complete for F001-F005, F039.
	HAZARDOUS	or	SUBCATEGORY	WASTE BE MANAGED? (Circle one)  (A) B C D E F C R I J K L M S	contained in the waste. Complete for F001-F005, F039.
*	HAZARDOUS WASTE CODE(S)	Wiv -	SUBCATEGORY	WASTE BE MANAGED? (Circle one)  (A) B C D E F G H I J K L M S  A B C D E F G H I J K L M S	contained in the waste. Complete for F001-F005, F037, D001-D043, Soil & Debris wastes
11.4	HAZARDOUS WASTE CODE(S)	NWW	SUBCATEGORY	WASTE BE MANAGED? (Circle one)  A B C D E F C R I J K L M S A B C D E F C H I J K L	contained in the waste. Complete for F001-F005, F037, D001-D043, Soil & Debris wastes
11.A	HAZARDOUS WASTE CODE(S)	WWW D WWW	SUBCATEGORY	WASTE BE MANAGED? (Circle one)  A B C D E F G H I J K L M S A B C D E F G H I J K L M S A B C D E F G H I J K L M S	contained in the waste. Complete for F001-F005, F037, D001-D043, Soil & Debris wastes

#### HOW MUST THE WASH, BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

(CONCLE ONE)

(CONCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CONCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I cortify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

• •	rly disposed of in accordance with all local, state and f of" means either: 1) Burial or 2) Processed as specified in 4	•
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPAID # MID000724831)	Wayne Disposal, Inc. (EPA 1.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER	1-800-592-5489	
FAX NUMBER	1-800-592-5329	
Authorized Signature	M Lay	





#### WASTE MANAGEMENT DIVISION **MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

	DO	NOT W	/RITE	IN	THIS	SPACE
ATT.		DIS.			REJ.	

Required and Part amended	d Part		
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324 11151 or 324 12116 MCL

UI	NIFORM HAZARDOUS	Generator's US EPA ID No.		Manifest ument No	12 Pa	ge 1 Inform	nation in	the shaded area red by Federa
3 Ge	WASTE MANIFEST nerator's Name and Mailing Add IDUSTRIAL HIGHWAY	IND 040 888 992		X)4-2	ASS	1   law tate:Manifest	Docume	enteNumber 💥
6499 li	ndustrial Highway					1) 798 tate Generate		
4 Ge	N 46406 nerator's Phone ( 219 ) g insporter 1 Company Name	944-8357	PA ID Num	<b>.</b>				
	BEELMAN TRUCKI	16 MARL ILD O	078141	825		tate Transpor ansporter's P		800-851-80
7 Tra	nsporter 2 Company Name	8. US (	PA ID Numi	ber		ate Transpor		
9 Des	signated Facility Name and Site in Disposali Waste Treatment Plant	Address 10. US E	PA ID Numb	ber		tate:Facility		
49350	N. I-94 Service Drive le, MI 48111				HF	acility's Phon	<b>8</b> 5.7	
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11A M	Iditional Descriptions for Material DIAPPROVAL # 010700ME RG # 171							K. Handling Codes Wastes Listed Abo A. Listed Abo
15 Spe	cial Handling Instructions and Ad	Iditional Information						的概念的特色和
16. GENE	RATOR'S CERTIFICATION: 1 hereby declar	44 -8357	nt are fully a	and accura	lely desc	ribed above by	proper sh	ipping name and
If I a to be prese	ified, packed, marked, and labeled, and are in a im a large quantity generator, I certify the economically practicable and that I have int and future threat to human health ar ation and select the best waste management o	at I have a program in place to reduce we selected the practicable method of and the environment; OR; if I am a smi	the volume treatment, sto all quantity go	and toxici rage, or d	ly of wa	ste generated to currently availab	the degree	ee I have determi which minimizes
	led/Typed Name HOMAS J. RTSILWICZ	AGOVT FOR 6500 Signature	Then	. 4	De	1,1111		OIL ATIO
	sporter 1 Acknowledgement of R		2000	0	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	> +	Date
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18 Tran	sporter 2 Acknowledgement of R	eceipt of Materials					M	
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### LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

		55 6499 IND				END040888992 46406
Sta	te Manifest No	)		Manifes	t Doc. No//	7981908
			- 1	INSTRUCTIONS		•
•	In Column I i	identify all USEPA hazaro	ious waste co	des that apply to th	is waste shipment.	•
•	In Columa 2,	choose the appropriate tr	eatability gro	up: Non-Wastewat	er (NWW) or Wastev	rater (WW). na
• ,	In Column 3, waste will be t	enter the appropriate Su treated using one of the al	ibcategory, if ternative trea	applicable, and al tment technologies	so enter "Contamina provided by 268.49(c	ted Soil" or "Debris" if the c) (soil) or 268.45 (debris).
•	In Column 5,	circle the letter of the app for F001-F005, F039, D00 Guide-LDR/UHC Consti	1-D043, Debr	is & Contaminated or any constituents	Soil wastes, enter the	e Reference Number(s) from the in your waste stream.
	Munifest Line Item	i. USEPA HAZARDOUS WASTE CODE(S)	NWW or WNY	SUBCATEGORY	HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
	11.A	D040	ZNWW OWW	-	ABCDEF GHIJKL MS	206,188
	11.8				A B C D E F G H I J K L M S	
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knon	eledge and info		_	7.	Title_INDUST	ed accurate to the best of my 150n 6500 21nL H164WH16ROL
Print	ed Name	HOMAS J. R	YSIEWI	<u> </u>	Date/	-17 - Z000

#### HOW MEST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 dalicited options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

(CONCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS.

(CONCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to verify the wastes specified on Manifest # MI 7981908
have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either:	1) Burial or 2) Processea	l as specified in 40 CFR et seq.
-----------------------------	---------------------------	----------------------------------

FACILITY NAME (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I D. # MID000724831)	Wayne Disposal, Inc. (EPAID # MID048090633)
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111	; ₉ .
PHONE NUMBER:	1-800-592-5489	}
FAX NUMBER.	1-800-592-5329	
Authorized Signature:	EM Lay	



AIGAN AT 1-800-292-4708 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE

ILLS MUST BE REPORTED TO THE MICHIDAN POLLUTION EMERGENCY ALERTING SYSTEM, IN R AT 1:800-424-8802 24 HOURS PER DAY.

#### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

DO NOT WRITE DIS. 🗆

IN	THIS	SPACE		
	DEI	$\Box$	DD	

Required under authority of Part and Part 121 of Act 451, 1994 amended

Failure to file may subject you to c nal and/or civil penalties under Se-324 11151 or 324.12116 MCL

ease print					F	orm Approved ON	1B No 20	050-0039	
U	NIFORM HAZARDOUS	1 Generator's US EP		Manifest Document No 0004-3	2 Pa	is not			ded area Feder
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9 De Michiga	signated Facility Name and Site A In Disposali Waste Treatment Plant	ddress 10.	US EPA ID N	lumber	GS	late Facility's I	D (	74.PM 2	1000000
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Bellevi	lle, MI 48111	Tages	.). .000_724_831_						
11. US	DOT Description (including Proper ID NUMBE	Shipping Name, Haza		12 Cont	ainers Type	13 Total Quantity	7 74°	I I Was	MARKET STATE
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								C. () () ()	<b>国本</b> 米等
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24 HR	EMERGENCY#: Z19-9	44-8357							
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	RATOR'S CERTIFICATION: I hereby declare								
If I	am a large quantity generator, I certify that a economically practicable and that I have	I have a program in pla-	ce to reduce the vol	ume and toxicit	y of wa	ste generated to t	the degr	ee i hav	e determin
pres	ent and future threat to human health and ration and select the best waste management me	the environment; OR, if	i am a small quanti					o minimiz	
Prin	ted/Typed Name HOMINJ J. RYSIEWICZ I	GUT PORBICO	Signature XI	. 0.	Dis				Day Yea
				one of	3	terres		9/1	17/00
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8. Tran	sporter 2 Acknowledgement of Rec	eipt of Materials	- J	11-00-01-1				D	ate
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Print	ed/Typed Name	13	Signature				- 1	tonih D	ate Jay Year
		Ì					- 1	1 1	. 1 .



### Land Disposal Restriction & Certification Form 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Gei	nerator Addr	ess 6499 Ina	12/19/	-	_	
Sta	te Manifest N	io	·	Manifes	st Doc. No	I 7981909
•	In Column 1	identify all USEPA hazaro	•	INSTRUCTIONS des that apply to th	is waste shipment.	•
•		, choose the appropriate tr				vater (WW). "
•	In Column 3	s, enter the appropriate Su	bcategory, if	applicable, and al	so enter "Contamina	ted Soil" or "Debris" if the
,	waste will be	treated using one of the al	ternative trea	tment technologies	provided by 268.49(	c) (soil) or 268.45 (debris).
•		, circle the letter of the app	-			
•		i, for F001-F005, F039, D00 e Guide-LDR/UHC Consti				e Reservence Number(s) from th
	EQ Resource	e Guide-LDIOONC Count	racut Table I	or any consucuents	subject to treatment	in Jour waste stream.
	Manufest Line Item	I. USEPA HAZARDOUS WASTE	2. NWW or WN	J. SUBCATEGORY	HOW MUST THE WASTE BE MANAGED?	5. REFERENCE NUMBER(S) of Hazzrdous Constituents contained in the waste. Complete for F001-F005, F032.
!		CODE(S)			(Circle one)	D001-D043, Soil & Debris weeres.
ļ	11.4	D040	XNWW Oww	-	ABCDEF GHIJKL M S	206,188
	11.B		O NWW		A B C D E F G H I J K L M S	
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			ed on this and	l all associated doc	uments is complete an	id accurate to the best of my
	vledge and in			•	A6WT	1502,6500
Gene	rator Signat	ure Thomas !	Kysuu	ues .	Title	UAL HIBYWHY GRO
<b></b>		THOMAS J. R	אנטוביונוצ	1.7 1	Date	-17-2000

#### HOW MUST THE WASHE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

(CONCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS.

(CONCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to	verify the wastes specified on Manifest # <u>MI 798</u>	1909
have been proper	rly disposed of in accordance with all local, state and f	federal regulations.
"Disposed	of" means either: 1) Burial or 2) Processed as specified in 4	0 CFR et seq.
	;	; ; *
FACILITY NAME. (Please check one)	Michigan Disposal Waste Treatment Plant (EPAID # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)

PHONE NUMBER

ADDRESS.

1-800-592-5489

49350 N. I-94 Service Drive Belleville, Michigan 48111

FAX NUMBER.

1-800-592-5329

Authorized Signature _



EPA Form 8700-22 (Rev. 9/88)



#### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

	DO	<b>NOT WRITE</b>	IN THIS SPACE
ATT.		DIS. 🗌	REJ. 🗆

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REJ.		PR

Required under authority of Part and Part 121 of Act 451, 1994 amended.

Failure to file may subject you to c nal and/or civil penalties under Se-324 11151 or 324 12116 MCL

EQP 5

Rev. 5

Ple	se print d			,			F	orm Approve			
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	4 Ger	nerator's Phone (219) gansporter 1 Company Name SETSUMBAN TRUCKINE asporter 2 Company Name	44-8357	É LICEDA	ID Num	boe .	200				
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	classif	RATOR'S CERTIFICATION: I hereby declar ied, packed, marked, and labeled, and are in a	il respects in proper c	condition for transport by h	alghway ac	ccording to a	applicable	Internationa	l and natio	onal gove	ernment regulati
	If I a	n a large quantity generator, I certify that economically practicable and that I have	at I have a program	n in place to reduce the	e volume	and toxicit	y of wa	ste generate	d to the	degree	i have determ
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WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

To be mailed by

Conomitor to



### Land Disposal Restriction & Certification Form 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID#MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Address 6499 TNOUSTRIAL Highway, GARY IN 46406  State Manifest No. Manifest Doc. No. MT79819								
		٠	- , ]	INSTRUCTIONS		-		
•	• In Column I identify all USEPA hazardous waste codes that apply to this waste shipment.							
•	● In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).							
•	• In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).							
•	• In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.							
•	• In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the							
	EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.							
			1					
	Munifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	HOW MUST THE WASTE BE MANAGEDT (Circle one)	5. REFERENCE AUMBER(S) of Hazardous Constituents contained in the waste, Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.		
		CODE(3)			(A)BCDEF	Doc 1-50-3, Soil & Debits Waltes,		
	11.4	D040	D WW		CHIJKL M S	206,188		
	11.B				A B C D E F C H I J K L M S			
	11.C		O NWW	-	A B C D E F G R I J K L M S			
	11.D		O NWW		A B C D E F G H I J K L M S			
	reby certify the		ed on this and	l all associated doc	_	nd accurate to the best of my		
	•		P			C 1502 6500 WAL HIGHWAY 620U		
Gen	erator Signat	ure Thomas 1	qui	ug .	A 1416	<del></del>		
Prin	ted Name	THOMPS J. R	YSIEWI	L7	Date	-17-2000		

#### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A CONCLEONS)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (TREATMENT)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

	rerify the wastes specified on Manifest #	
• •	of" means either: 1) Burial or 2) Processed as specified in 4	_
FACILITY NAME. (Please check one)	Michigan Disposal Waste Treatment Plant (EPAID # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111	• .
PHONE NUMBER.	1-800-592-5489	
FAX NUMBER.	1-800-592-5329	

Authorized Signature:





# WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

# DO NOT WRITE IN THIS SPACE

Required under authority of Part 11 and Part 121 of Act 451, 1994, a amended

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# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 600 724 831

O Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

O Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Address State Manifest No		- IAIT	•	_	7981915
• In Column I	identify all-USEPA hazardo	•	INSTRUCTIONS  des that apply to the	is waste shipment.	
<ul><li>In Columa 2,</li><li>In Columa 3</li></ul>	, choose the appropriate treat , enter the appropriate Substituted using one of the alter	tability gro ategory, if	up: Non-Wastewat applicable, and al	er (NWW) or Wastey so enter "Contamina	ted Soil" or "Debris" if the
<ul><li>In Column 4,</li><li>In Column 5,</li></ul>	, circle the letter of the appro	priate para D043, Debi	igraph from Pages ris & Contaminates	1-2 of this form. I Soil wastes, enter the	e Reference Number(s) from the
Munifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WNV	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED* (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.4	D040/D039	NWW D WW	-	ABCDEF GHIJKL M S	206,188
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11.0				A B C D E F G H I J K L M S	
hereby certify the	at all information submitted formation.	on this and	l all associated doc	· ·	ed accurate to the best of my
Cenerator Signatu	ire Thomas	J. Rysu	wig .		IN HIGHWAY GROW

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

(CORCIL ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CORCIL ONE)

(CORCIL ONE)

(CORCIL ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

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NEW WOOD
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<b>DANAG</b>

This certificate is to v	verify the wastes specified on Manifest # $\frac{2866}{2}$	7/5						
have been proper	ly disposed of in accordance with all local, state and for	ederal regulations.						
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.								
	· ·	-						
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA 1 D # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)						
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111							
PHONE NUMBER	1-800-592-5489	,						
FAX NUMBER:	1-800-592-5320							



Authorized Signature:_



EPA Form 8700-22 (Rev. 9/88)

## WASTE MANAGEMENT DIVISION **MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

DO	NOT	W	RITE	IN	THIS	SPACE	
	DI	S.			REJ.		PR.

ATT.

Failure to file may subject you to crin
nal and/or civil penalties under Section

324 11151 of 324 12116 MCL)

Required under authority of Part 1 and Part 121 of Act 451, 1994,

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	classif	RATOR'S CERTIFICATION: I hereby fied, packed, marked, and labeled, and	are in all respects in prope	er condition for transport	by highway a	ccording to	applicable	e international and r	national g	overnment regul	
1	to be	m a large quantity generator, I cer economically practicable and that	t I have selected the p	racticable method of t	treatment, sto	orage, or d	isposal	currently available	to me	which minimiz	
-	genera	nt and future threat to human her ation and select the best waste manage	ement method that is avail	able to me and that I can	afford.	enerator, i	ilave ili	ade a good faith	[	Date	
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1		ed/Typed Name	Signature	1)	V				Ionth Day		
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L	20 Facility Owner or Operator Certification of receipt of hazardous majerials covered by this manifest except as noted in										
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	20 Facilit	19	cation of receipt of	nazardous materials	covered b	y this ma	nifest e	except as noted	Γ	Date	

# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM

Please check the facility you are shipping to: Michigan Disposal Waste Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID# MID 000 724 831

Wayne Disposal, Inc. Subtitle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Ge	nerator Addre	ss 6499 Indus	rrial	•		
Sta	te Manifest No	). <u> </u>	<del> </del>	Manifes	st Doc. No	nI 7981916
			j	INSTRUCTIONS		·
•	In Column 1	identify all USEPA hazardot	is waste co	des that apply to th	iis waste shipment	• •
•	In Column 2,	choose the appropriate treat	tability gro	up: Non-Wastewat	ter (NWW) or Wa	stewater (WW)
•						inated Soil" or "Debris" if the
		<del>-</del>			-	19(c) (soil) or 268.45 (debris).
•		circle the jetter of the appro				
•						the Reference Number(s) from the
	EQ Resource	Guide-LDR/UHC Constitue	sut Table.id	or any constituents	subject to treatme	ent in your waste stream.
	Manufest	1.	<del></del>		4.	F DECEMBER AND DED
	Line Item	USEPA	NWW	J. SUBCATEGORY	HOW MUST THE	5. REFERENCE NUMBER(S) of Hazardous Constituents
	#	HAZARDOUS WASTE	or W/V		WASTE BE MANAGED?	contained in the waste.  Complete for F001-F005, F032.
		CODE(S)			(Circle one)	D001-D043. Soil & Debris wastes.
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		D040/0039	Dww		M S	206,188
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Cene	rator Signatu	re Okysun of	Rese	eurs .	Title	STRIAL HIGHWAY GROU
	•		RYSIL	1111/2		REWARY Z4, 2000

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 naticized options:

Printed Name

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A S. (CIRCLE ONE) (COACLE ONE) CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CDICLE OVE)

AS PROVIDED BY 268.4%c) OR THE UNIVERSAL TREATMENT STANDARDS. I cornfy under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

have been properly dis	the wastes specified on Manifest # 78 sposed of in accordance with all local, state and means either: 1) Burial or 2) Processed as specified in	_
FACILITY NAME · (Please check one)	Michigan Disposal Waste Treatment Plant (EPA1D # MID000724831)	Wayne Disposal, Inc. (EPA 1.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	i i
FAX NUMBER	1-890-592-5329	



Authorized Signature:



## WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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*4	9. 0 Michi 4935 Belle	Transporte Designate Hgan Dispo 50 N. I-94 eville, Mi	ed Facility oceal Waste 4 Service D 48111	Name and Site Treatment Plant Drive	Address	8. 10. (MT) 0	US EPA ID US EPA ID	Number Number	ES ES GS	ansboriens Pro (Blo Transporter ansporters Pro (Blo Facility St) acility s Priores		
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# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C.Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name 6	200 IN	Dustrial High	WAY Genera	tor USEPA I	D No	END040888992
Generator Address	6499	INDUSTRIAL	Highway,	GARY	IN	46406
State Manifest No						<u> 7981917</u>

### INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Munifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WNV	J. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED* (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Consutuents contained in the waste. Complete for F001-F005, F039, D001-D043. Soil & Debris wastes.
11.A	D040/0039	X:ww   O ww	-	ABCDEF CHIJKL MS	206,188
11.B		3 NWW 3 NWW		A B C D E F G H I J K L M S	
11.C		□		A B C D E F G H I J K L M S	
11.D	San e s ²⁸	□ NWW □ WW		ABCDEF GHIJKL MS	

2 •	
I hereby certify that all information submitted on this and all ass knowledge and information.	·
anowieuge and into mation.	AGOUT FOR 6500
Generator Signature	Title - ELOUITEIAL HIGYWAT GROWP
Printed Name DAVID Py 65	Date 2-29-00

## HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 naticized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOU'S WASTE AND DOES / DOES NOT EXHIBIT A (CONCIL ONE)

CONCIL ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CONCIL ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

2...

have been properl	erify the wastes specified on M y disposed of in accordance wi f" means either: 1) Burial or 2) Pr	th all local, state and fede	_
Z inpostition of	,	·	
FACILITY NAME: (Please check one)	Michigan Disposal Wast (EPAID # MID000724831)	e Treatment Plant	Wayne Disposal, Inc. (EPA I D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Driv Belleville, Michigan 48111	re	
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329		



Authorized Signature ___

THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-2824708 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE PER DAY.

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	and Part	121	of	Act	451.	1994,	. 8
]	amended.						

Failure to file may subject you to crim nal and/or civil penalties under Sectio 324 11151 or 324 12116 MCL.

Form Approved OMB No. 2050-0039 Please print or type Information in the shaded areas Generator's US EPA ID No. UNIFORM HAZARDOUS Manifest is not required by Federal DMI 040 888 992 **WASTE MANIFEST** 3. Generator's Name and Mailing Address
9500 INDUSTRIAL HIGHWAY HEA DR AFTER State Manifest Document Number 6499 Industrial Highway Gary, IN 46406 Generator's Phone ( Transporter 1 Company Name State Transporter SUD Dy transporters (Phon 600) - 66 Transporter 2 Company Name ENSIAID TRATAGETIERS (D. Ferransporter stehoner Designated Facility Name and Site Address Michigan Deposal Weste Treatment Flant 10 US EPA ID Number G State Facility's ID 49350 N. I-94 Service Drive HAFACULLY SIRHODE Belisville, MI 48111 13 592 5-89 MID 000 724 831 12.Containers 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). Total Unit НМ No **ж** Туре Quantity Wt/Vol RQ, Hazardous Waste Solid, n.o.s., (Trichloroethylene, E 25.321 N E Tetrachioroethylene)9,NA 3077,PG III 001 DT D 0 4 R b. T 0 C. d. dissipational Descriptions for Materials Listed IA ND APPROVAL # 010700ME 15 Special Handling Instructions and Additional Information 24 HRYEMERGENCY #: 219-944-8357 16, GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Signature Month Day 1 Acknowledgement of Receipt of Materials Date TRANSPORTER Printed/Typed Name Signature Month Day ALL SPILLS MUST BE REPORTED TO CENTER AT 1:800-424-8802 24 HOURS Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Signature , 19. Discrepancy Indication Space Ĉ Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Signature Month Day



# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 653

☐ Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name 6500 INDUSTRIAL High	OWAY Generator USEPA I	DNO. INDO40888992
Generator Address 6499 TNOUSTRIAL	Highway, Gary	IN 46406
State Manifest No	Manifest Doc. No	MI 7981918

### INSTRUCTIONS

- In Column I identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Munifest Line Item	i. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WNY	J. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F032, D001-D043, Soil & Debris wastes.
11.A	D040/D039	X.ww Oww	<u></u>	ABCDEF CHIJKL MS	206,188
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11.C		□ NWW □ NWW		A B C D E F C H I J K L M S	
11.D		□ NWW □ WW		A B C D E F G H I J K L M S	

I hereby certify that all information submitted on this and all	associated documents is complete and accurate to the best of my
knowledge and information.	A6CRT FOR 6500
Generator Signature	TITLE INDUSTRIAL HIGHWAY GROUP
Printed Name DAVID Pylos	Date 2-29-00

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 nalicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

(CDICLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CDICLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

	erify the wastes specified on Manifest #	9 18 federal regulations
• •	of" means either: 1) Burial or 2) Processed as specified in 4	•
	$\bigvee$	
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPAID # MID000724831)	Wayne Disposal, Inc. (EPA I.D # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	•
PHONE NUMBER:	1-800-592-5489	·
FAX NUMBER:	1-800-592-5329	



Authorized Signature __



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4708 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

# WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

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and Part 121 of Act 451, 1994, a amended

amended TLISO
Failure to file may subject you to crim nal and/or civil penalties under Sectic 324 11151 or 324 12116 MCL

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16. GENE	RATOR'S CERTIFICATION: I hereby declar- fied, packed, marked, and labeled, and are in all	e that the content	s of this consignment are	fully ar	d accurate	ly desci	ibed above by	proper shall national o	ripping name and
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# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Generator Name 6500 INDUSTIN Highway Generator USEPA ID No. INDO40888992

O Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

206,188

Generator Addi	ess 6499 INDU	strial	Highway.	GARY IN	1 46406
State Manifest N	Yo	<del></del>	Manifes	Doc. No	I 7981919
			Instructions	0060	
• In Column	l identify all USEPA hazardo	ous waste co	des that apply to th	is waste shipment.	
	, choose the appropriate tre				tewater (WW).
• In Column	3, enter the appropriate Sub	category, il	applicable, and als	o enter "Contami	nated Soil" or "Debris" if the 9(c) (soil) or 268.45 (debris).
• In Column	, circle the letter of the appr	opriate para	agraph from Pages	1-2 of this form.	
	5, for F001-F005, F039, D001 2 Guide-LDR/UHC Constitu	-			the Reference Number(s) from the nt in your waste stream.
Munifest Line Item #	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WNY	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED* (Circle ooe)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.

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I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my

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knowledge and information.	A600 FOR 6500	
Cenerator Signature	Title INDUSTRIAL HIGHLUAY 6.	ROUP
Printed Name DAUDPy los	Date 3:-2-00	

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 nalicized options:

DO40/0039

5. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A

(CONCLEONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CONCLEONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to verify the wastes specified on Manifest #	
have been properly disposed of in accordance with all local, state and federal regulations.	
"Disposed of" means either: 1) Rurial or 2) Processed as specified in 40 CFR et sea	

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EBAID # MID000724831)

ADDRESS.

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER.

1-800-592-5489

Authorized Signature:



# WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

50	1101 111111-11		
ATT.	DIS. 🗆	REJ. 🗌	PR. 🗆

Required under authority of Part 111 and Part 121 of Act 451, 1994 as amended

Failure to file may subject you to criminal and/or civil penalties under Section 324 11151 or 324 12116 MCL

lease prii	nt or type					F	orm Approved Of	/B No 20	50 0039
<b>1</b>	JNIFORM HAZARDOUS WASTE MANIFEST	IND 040	US EPA ID No 888 992	Docu	anifest ment No	1 (	1 is not law	requi	the shaded ar red by Fede
6500	Generator's Name and Mailing Addre	ss-CoK	Y PLAZA D.	eive si	10%	i	ate Manifest (		
	Industrial Highway	· · · · ·	357 357	IL.			11 798		<u>. U</u>
Gary	, IN 46406	744-83	357	4055	59		ate Generator'	s ID	
5 1	Generator's Phone ( 719 ) -194 ransporter 1 Company Name	4-83-72	6 US EPA	ID Numb			ate Transporte	r's ID	<del>:</del>
,	BEHMAN TRUCKIN	u B.	ELD 0078	1482	5-		ansporter's Ph		w-851-8
ד כ	ransporter 2 Company Name		8 US EPA	(ID Numb	er	E. St	ate Transporte	r's ID	
			10.50	15.41		<del></del>	nsporter's Pho		
Mich	esignated Facility Name and Site A gan Diaposall Waste Treatment Plant	ddress	10. US EPA	ID Numb	er	G. SI	ate Facility's	D	
4935	0 N, I-94 Service Drive					H F	cility's Phone		
Belle	ville, MI 48111	1	MID 000 724	<b>831</b>		\$ - T.	_		<b>.</b>
11. U	S DOT Description (including Proper	Shipping Name			12 Conta		13	14	I. Waste
	IM IĎ NUMB				No	Туре	Total Quantity	Unit Wt/Vo	No.
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TIA	MDI APPROVAL # 010700ME ERG # 171		039						B
	pecial Handling Instructions and Add	litional Informat	ion	TO SECURE	***	· · ·			<u></u>
24 H	R. EMERGENCY #:	219-94-	4-8357	•					
l da	NERATOR'S CERTIFICATION I hereby declar ssified, packed, marked, and labeled, and are in al I am a large quantity generator, I certify that	l respects in proper c	condition for transport by	highway ac	cording to a	pplicable	international and	national g	jovernment regul
l to	be economically practicable and that I have esent and future threat to human health and	selected the prac	ticable method of trea	atment, stor	rage, or di	sposal	currently available	to me	which minimiz
ger	neration and select the best waste management m	ethod that is available	e to me and that I can aff	ord.					Date
プ		02 6500		1	1 /	2			Nonin Day
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l .	inted/Typed Name		Signature	<del></del>				<u>I</u>	fonth Day
_	MES KINNET		Junes	Ken	nen			1	013/012/
18 Tra	ansporter 2 Acknowledgement of Re	ceipt of Materia	ils						Date
Pro	inted/Typed Name							A	
1			Signature					;	tonth Day
10.0	···		Signature		·				tonth Day
19 Di	screpancy Indication Space		Signature		<del></del>			Ϊ	Month Day
 	screpancy Indication Space	of receipt of haz		overed by	this mar	nifest e	except as noted		Month Day
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20 Fac	screpancy Indication Space	of receipt of haz		overed by	this man	nifest e	except as noted		Date:

# Q) LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal; Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID#MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blanding & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID#MID 060 975 844

Generator Name 6500 I	voustrial Highway	_Generator USEPA 1	10 No. INDO40888992
Generator Address 6499			
State Manifest No.	_	_	MI 7981920

### INSTRUCTIONS

- In Column I identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Munifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	NWW or WYV	SUBCATEGORY	HOW MUST THE WASTE BE MANAGED* (Circle ooe)	5. REFERENCE NUMBER(S) of Hazardous Consutuents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.4	D040/0039	NWW OWW	-	ABCDEF GHIJKL MS	206,188
11 B		D WWW		ABCDEF GHIJKL MS	
11.C		O NWW		A B C D E F C H I J K L M S	
11.D		□ NWW □ WW		A B C D É F G H I J K L M S	

knowledge and information.	AGENT FOR 6500
Generator Signature	TITLE INDUSTRIAL HIGY WAY GROUP
Printed Name + AUID Py Con	Date 3-07-00

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

5. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CONCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CONCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

-7 1-7

have been properl	erify the wastes specified on Manifest # MI 7  y disposed of in accordance with all local, state and the state of means either: 1) Burial or 2) Processed as specified in 4	
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA 1 D # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	·4. 3
FAX NUMBER:	1-800-592-5329	



Authorized Signature._

# WASTE MANAGEMENT DIVISION-MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ΙE	IN	THIS	SPACE	:	
1		RF.I		PR	$\Box$

Required	unde	r a	utho	rity of	Part	111
and Part	121	of	Act	451,	1994,	as
amended.						

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 of 324.12116 MCL

3. Generaties 6500 INDUS 6499 Indust Generaties 5. 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# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to: Michigan Disposal Waste Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID# MID 000 724 831.

Wayne Disposal, Inc. Subatle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blanding & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name 6500 I	voustrial High	OWAY Generator USEPA I	DNO. INDO40888992
Generator Address 6499	INDUSTRIAL	Highway, GARY	IN 46406
State Manifest No			MI 7981921
			00063
		INSTRUCTIONS	~
• In Column Lidentify all IISE	PA hazardous waste c	odes that apply to this waste ship	ment

- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

	<del></del>			<del>,</del>	
Munifest Line Item	l. USEPA HAZARDOUS WASTE CODE(S)	NWW or WV	SUBCATEGORY	HOW MUST THE WASTE BE MANAGED* (Circle ode)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste Complete for F001-F005, F039, D001-D043, Soil & Debris wastes
11.A	D040/0039	XNWW Oww	_	ABCDEF GHIJKL MS	206,188
11.B		0 %WW		A B C D E F C H I J K L M S	
11.C		O NWW		A B C D E F G H I J K L M S	
11.D		O NWW		A B C D E F G H I J K L M S	

I hereby certify that all information submitted on this and all assoc knowledge and information.	ACONTION 6500
Cenerator Signature	Title_ INOUSTRIAL HIGHWAY GROUP
Printed Name DAVID Pyles	Date3-7-00

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A (CORCLE ONT) CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CDICTLE ONE)

AS PROVIDED BY 268,49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to verify the wastes specified on Manifest # $981921$
have been properly disposed of in accordance with all local, state and federal regulations.
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPAID # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111	<u>.</u>
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER	1-800-592-5329	·
Authorized Signature.		





# WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO	NOT WRITE IN	THIS SPACE
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Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID#MID 060 975 844

Generator Name 6	500 INDUSTRIAL High	OWAY Generator USEPA I	DNO. INDO40888992
		Highway, Gary	
State Manifest No	•	• •	MI 7981922
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		•	•

### INSTRUCTIONS

- In Column I identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Munifor Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WNV	3. SUBCATEGORY	4, HOW MUST THE WASTE BE MANAGED* (Circle ooe)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D04J, Soil & Debris wastes.
11.A	DO40/0039	MNWW   Oww	-	ABCDEF CHIJKL MS	206,188
118		3 xww		A B C D E F C H I J K L M S	
11.C		O WW	,	A B C D E F C H I J K L M S	
J1.D		D.WW D.WW		A B C D E F G H I J K L M S	

I hereby certify that all information submitted on this and all associa	
knowledge and information.	AGENT FOR 6500
Generator Signature	Title INDUSTRIAL HIGHWAY GROUP
Printed Name Daw. D. Ry 69	Date 03-07-190

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 naticized options:

5. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to verify the wastes specified on Manifest # 1981902

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA 1 D. # MID000724831)	Wayne Disposal, In (EPA I D. # MID048090633)
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER	1-800-592-5489	
FAX NUMBER.	1-800-592-5329	1:
Authorized Signature:		





Please print or type

## **WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

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ATT. 🗀	DIS.		REJ.		PR.

Required					
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Failure to file may subject you to criminal and/or civil penalties under Sectic 324 11151 or 324 12116 MCL.

Form Approved OMB No 2050-0039

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		ndustral Highway						M	798	192	3
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LAND	DISPOSAL	RESTRICTIO
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Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 821

Wayne Disnord, In Subtitle C.J. ... (Secure Hazardonn and Subtitle 49350 N. I-94 and T. Belleville, M. Will and the EPA ID # MID and the coord

CION FORM 6/98

I) Michigan Recovery Systems, Inc. (Jolvent Focycling, Fuel Blending & Wastewstor Treatment) 36345 Van Born Road Remulus, MI 48174 EPA ID # MID 060 975 844

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Genera	itor Addre	35 6499 INDU	rrial	Higher Mg.	_	-7	46,4,06
State M	lanifest No	o		Tonic			n <u>T</u> 798 <b>1923</b>
<b>~</b>			,	INSTRUCCIO ES			•
• In	Column I	identify all USEPA hazardo	us waste co	des that an sign to r		ent.	•
		choose the appropriate trea			٠.	· Waster	water (\VW)
		enter the appropriate Sub- treated using one of the alter					ited Soil" or "Debris" if the c) (soil) or 268.45 (debris).
• In 6	Column 4,	circle the letter of the appro	priate para	igraph from Page	:	.w.	
		for F001-F005, F039, D001- Guide-LDR/UHC Constitu					e Reference Number(s) from the in your waste stream.
	tunifest ne Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WY	SUBCATEGORY	€ : A :	T THE BE CD? oe)	o. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043. Soil & Debris wastes.
	11.4	D040/0039	NWW	•		E F K L	206,188
	11.B				, , <b>,</b>	E F K L	
	11.C	•		.,	, ,	E F K L	
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rinead i	Name	THOMAS J. R	751130	162		<b></b> ダー	-9-2000

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For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HALL A WEWASTE AND DOES / DOES NOT EXHIBIT A (CONCIL ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / CLAR P. JES WITH THE SOIL TREATMENT STANDARDS

(CONCIL ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STAND () I. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the tree certification and believe that it has been maintained and operated properly so as to comply with the ment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

	verify the wastes specified on Manifest #		727
- ·	rly disposed of in accordance with all local, sta		_
"Disposed	of" means either: 1) Burial or 2) Processed as speci	ified in 40 CF	TR et seq.
-			
			1
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I D. # MID000724831)	nt	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
* *	·		»
PHONE NUMBER	1-800-592-5489	1	
		•	,
FAX NUMBER:	1-800-592-5329		
Authorized Signature			
	-		





Please print or type

# WASTEMANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

		IN THIS SPACE	Ē
ATT. 🔲	DIS. 🗆	REJ. 🗌	PR. 🗆

Required	under	author	rity of	Part	11
and Part	121 (	of Act	451.	1994,	ŧ
amended					
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Form Approved OMB No 2050-0039

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	Dellov	ille, MI 48111	!	MID 000 724 83	•		800-50		
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Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID#MID 000 724 831

Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Land
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 043 000 600

O Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)

16345 Van Born Road

Romulus, MI 48174

EPA ID # MID 060 975 844

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		. 1	INSTRUCTIONS		•
In Column 1	identify all USEPA hazardou	-		iis 'iipment.	•
	choose the appropriate treat				vater (WW)
In Column 3,	enter the appropriate Subc treated using one of the alter	ategory, if	applicable, and al	so en' = <b>"Cont</b> amina	ted Soil" or "Debris" if the
In Column 4,	circle the letter of the appro-	priate para	igraph from Pages	1-2 of : Us form.	
EQ Resource	for F001-F005, F039, D001-1 Guide-LDR/UHC Constitut				Reference Number(s) from t in your waste stream.
Manifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WN	J. SUBCATEGORY	4. HC W MUST THE VASTE BE LINAGED* Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.4	DO40/0039	XNWW DWW		C I J K L M S	206,188
11.8		O WWW		A C D E F G H I J K L M S	
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For S, circle the appropriate response for the 3 indicized options:

5. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CONCIL ONE)
(CONCIL ONE)
(CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARD. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

	ly disposed of in accordance with all local, state and for means either: 1) Burial or 2) Processed as specified in 4	_
	<b>,</b>	,
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, (EPA I.D. # MID0480900
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	*.
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



AN AT 1-800-282-4708 OR OUT OF STATE AT \$17-373-7860 AND THE NATIONAL RESPONSE

, MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN 1. AT 1.800-424-8802 24 HOURS PER DAY.

# WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

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Hequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324 11151 or 324.12116 MCL.

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<u> </u>		d/Typed Name —		Signature					ate ay Year
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EPA Form 8 ZOO 22 (Rev. 9/88) To De mailed by MASTE MANAGEMENT DIVISON MICHIGAN DE PARTIMENT DE ENVIRONMENTA EQUALITY TSD FACILITY TO BOSON 20028

₹ORM 6/98

# igotimes Land Disposal Restriction & C(1)

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

Subtitle C Lanc 511

(Secure Hazardous Waste 22 0

49350 N. I-94 Service by 0

Belleville, MI 43111

EPA ID # MID 048 05 3 2 2

Generator Name	6500 INDUSTRIE	il High	way Garas	10040888992
Generator Addre	15 6499 INDU	strial	HighWEY .	.6406
State Manifest No	)		Mar 6 : .	7981925
		j	INSTRUCTION S	
	identify all USEPA hazardo			•
	choose the appropriate trea	• •	1.5	cr (WW)
waste will be	enter the appropriate Sub treated using one of the alte	rnative tres	itment technologi - i	Soil" or "Debris" if the soil) or 268.45 (debris).
	circle the letter of the appro			
	for F001-F005, F039, D001-Guide-LDR/UHC Constitu			Velerence Number(s) from your waste stream.
Munifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	NWW or WAY	SUBCATE (O. )	5. REFERENCE NUMBER(S of Hazardous Constituents contained in the waste. Complete for F001-F005, F035 D001-D043, Soil & Debris wasn
11.A	D040/D039	NWW OWW		206,188
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,		HOW MISE		

including the possibility of fine and imprisonment.

Decycling, Fuel Blending & Discovator Treatment)
3345 Van Born Road
Dimulus, MI 48174
D # MID 060 975 844

en Recovery Systems, Inc.

DOES/DOES NOT EXHIBIT A
(CONCLI ONE)

OIL TREATMENT STANDARDS

natty of law that I have porsonalty support this certification and raified in 40 CFR 268.49 without

untag a false certification,

This certificate is to v	erify the wastes specified on Manifest # $798/$	1925
have been proper	ly disposed of in accordance with all local, state and f	federal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 4	0 CFR et seq.
	\	
FACILITY NAME (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	•
FAX NUMBER:	1-800-592-5329	



Authorized Signature:



# DO NOT WRITE IN THIS SPACE

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and Part	121 UL MCL 431, 1234, 4
amended.	9160
	7100
i Pailura to ti	ile may subject you to crimi

Required under authority of Part 111

nat and/or civil penalties under Section 324.11151 or 324 12116 MCL.

Please print or type Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS Generator's US EPA ID No. 2 Page 1 Manifest Information in the shaded areas is not required by Federal *もももとも* IND 040 888 992 WASTE MANIFEST 3. Generator's Name and Mailing Address A State Manifest Document Number MI 7.981.925 517-373-7880 AND THE NATIONAL RESPONSE 6499 industrial Highway State Generator's ID Gary, IN 46406 4. Generator's Phone 944-8357 US EPA ID Number ansporter 1 Compe C'eState:Transporter's ID 7814825 Di Transporteria Phone 2075 Transporter 2 Company Name CHO EPA ID Number E State Transporter s December 1999 And 1999 Fallransporter/s Phone ( Section 1995) Designated Facility Name and Site Address
 Michigan Diaposal Waste Treatment Plant 10 **US EPA ID Number** G. State Facility's ID: 1 6. 1 14.01 49350 N. I-94 Service Drive HT Facility's Phone 2 4 14 14 20 20 Belleville, MI 48111 800-582-5489 MID 000 724 831 12 Containers I. Waste 11. US DOT Description (including Proper Shipping Name, Hazard Class, and Total Unit ; No. ID NUMBER). HM No Type Quantity Wt/Vol RO Hazardous Waste Solid, n.o.s., (Trichloroethylene, 25.87 Tetrachloroethylene)9, NA 3077, PG III 001 D 0 4 0 b. Žita. T 0 d. tional Rescriptions for Materials Listed Ab **SVAL FOTOTOLIE** C.U.S. APPOLITE MARK 15. Special Handling Instructions and Additional Information 24 HR. EMERGENCY #: 219-944-8357 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name AGENT Signature Month Day Year FID. 03 17. Fransporter Acknowledgement of Receipt of Materials, Ďate tinted/Typed Signature Month Day 2 Acknowledgement of Receipt of Materials 18. Transporter Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Primed Typed Name Signature Month Day Year

# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please which the facility you are shipping to.

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

O Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blanding &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name 6500 INDUSTRIAL High	Generator USEPA I	DNO. INDO40888992				
Generator Address 6499 INDUSTRIAL	Highway, GARY	IN 46406				
State Manifest No		MI 7981926				
Instructions  In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.						

- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 2, choose the appropriate treatability group: Non-wastewater (NYW) or wastewater (NYW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Munifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	NWW or Way	J. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED* (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Consultuents contained in the waste. Complete for F001-F005, F039, D001-D043. Soil & Debris wastes.
11.A	DO40 10039	ANWW Oww	-	ABCDEF CHIJKL MS	206, 188
11 B		3 %ww		A B C D E F C H I J K L M S	
11.C		□ NWW		A B C D E F C H I J K L M S	
11.D				ABCDEF GHIJKL MS	

knowledge and information.		N FOR 6500
Generator Signature	Title	AGENT FOR 6500 INDUSTRIAL HIGHWAY GROUP
Printed Name Day Day G	Date	3-14/-00

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 naticized options:

5. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOU'S WASTE AND DOES / DOES NOT EXHIBIT A
(CERCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CERCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personalty examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

have been properly	erify the wastes specified on Man y disposed of in accordance with f" means either: 1) Burial or 2) Proc	all local, state and f	_	
FACILITY NAME: (Please check one)	Michigan Disposal Waste (EPA I.D # MID000724831)	Γreatment Plant	Wayne Disposal, (EPA I.D. # MID048090	
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		<b>&gt;</b>	
PHONE NUMBER:	1-800-592-5489			
FAX NUMBER:	1-800-592-5329			



Authorized Signature:

June 4

1978) 1113



DO NOT WRITE IN THIS SPACE	DO	NOT	WRITE	IN	THIS	<b>SPACE</b>
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Required under authority of Part 11 and Part 121 of Act 451, 1994, a

Failure to file may subject you to crim nal and/or civil penalties under Sectio 324 11151 or 324 12116 MCL

Please p	orint or type				Form Ap	proved OMB	No 2050 0039 ·
A	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EP/ IND 040 868		Manifest Document No.	2 Page 1 of 1	is not l	on in the shaded areas required by Federal
	Generator's Name and Mailing Addres O INDUSTRIAL HIGHWAY	s			10.17 . 0	* * * * * * * * * * * * * * * * * * *	cument Number
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193	Additional Descriptions for Materials L	isted Above			15417632	42924	K Handling Codes fo
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241	HR EMERGENCY#: 219-94	14 - 8357	7				
	•						
	GENERATOR'S CERTIFICATION: I hereby declare						
1 (	classified, packed, marked, and labeled, and are in all re if I am a large quantity generator, I certify that i	l have a program in plac	ce to reduce the v	rolume and toxicity	of waste ge	nerated to th	e degree I have determined
1 :	to be economically practicable and that I have a present and future threat to human health and the present and future threat to human health and the present are the present and the present and the present are the present and the present are the present and the present are the present and the present are the present and the present are the present are the present are the present and the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present are the present a	the environment; OR; if	l am a small quai				fort to minimize my waste
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-S MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4708 OR OUT OF STATE AT 517:373-7880 AND THE NATIONAL RESPONSE AT 1-800-424-8802 24 HOURS PER DAY.

# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 043 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name 6	500 INDUSTRIAL High	WAY Generator USEPA I	DNO. INDO40888992
Generator Address	6499 INDUSTRIAL	Highway, GARY	IN 46406
State Manifest No		<del>-</del> -	MI 7981927
			DOC NO. 000 69
		T	

#### INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Munifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WY	SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F037, D001-D043, Soil & Debris wastes.
11.A	D040/0039	NWW   UWW		ABCDEF CHIJKL M S	206,188
11.B		OWW		A B C D E F C H I J K L M S	
11.C		O WW		A B C D E F C H I J K L M S	
11.0		□ NWW □ WW		ABCDEF GHIJKL MS	

I hereby certify that a	ill information sub	mitted on this and all ass	ociated document	s is complete and accurate to the best of my	
knowledge and inform		_	• **:	AGENT 1=02 6500	
Generator Signature	Open	- A Rysuur	Title	INDUSTRIAL HIGHWAYG	LLU
		J. RYSIEWIC		3-16-2000	

#### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CDRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CDRCLE ONE)

AS PROVIDED BY 268,49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impormissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to verif	y the wastes specified	on Manifest # $         -$	(19)
have been properly d	isposed of in accordan	ce with all local, state and f	ederal regulations.
"Disposed of"	means either: 1) Burial o	r 2) Processed as specified in 4	0 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposa	al Waste Treatment Plant	Wayne Disposal, Inc. (EPAID. # MID048090633)
ADDRESS:	49350 N I-94 Service Belleville, Michigan		
PHONE NUMBER:	1-800-592-5489		# 18 2 m
FAX NUMBER:	1-800-592-5329	`	
Authorized Signature		Down	





ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

TRANSPORTER

FACILITY

## WASTE MANAGEMENT DIVISION **MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

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Failure to file may subject you to priminal and/or civil penalties under Sectio 324 11151 or 324 12116 MCL

Form Approved OMB No 2050-0039

PR.

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	act resource may be a read or an in the management	- Bertalian and Albanian and Albanian	Transfer worth later or any confidence about the	own Marchine on Something	Department of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con	The second section of the second	Property and the second		
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	ERG # 171								A SAME TO THE
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l	'	Instructions and Addi	tional Information						
	24 HR. EMERGENC	Y#: フィヴ	-944 -83:	C 77					
		217	- 7 etct 5 5.	3 /					
	16. GENERATOR'S CERTIF	ICATION: I hereby declare	that the contents of t	his consignment are	fully and accurate	ely described	above by pro	oper shipping	name and ar
İ	If I am a large quanti	ed, and labeled, and are in all ity generator, I certify that	I have a program in p	place to reduce the ve	olume and toxicity	of waste go	enerated to the	ne degree I ha	ave determine
ŀ	present and future the	racticable and that I have reat to human health and	the environment; OR;	if I am a small quan	nt, storage, or di atity generator, i l	sposal curren have made a	tly available good faith	to me which effort to minin	minimizes th nize my wast
	D	e best waste management me		10				Month	Date Day Year
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Ţ	17 Transporter 1 Ack	nowledgement of Rec	eipt of Materials			<del>4.1.1.1.1.1.1.1.</del>	78		Date
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7	19 Discrepancy Indicat	ion Space	<del></del>	·				<u> b, b</u>	
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			τ,						
:	20 Facility Owner or C	Operator Certification (	of receipt of hazardo	us materials cover	ed by this man	ufest excep	t as noted	in	
7	Item 19								Date
I	Printed/Typed Nam	ne -	1	Signature	\ /	1	7	Month	Day Year
1	10/1/15	k; 1)_	We a	1 11 / .	\ /	1 810	( in	100	11/1-1-

## LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to: Michigan Disposal Waste Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID# MID 000 724 831

Wayne Disposal, Inc. Subtitle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID#MID 048 090 683

☐ Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

IJOUSTRIAL HIGHWAY GROUP

3-16-2000

merator Addre	es 6499 Thou	2111111	, –	_			
ite Manifest N	0	·	Manife:	st Doc. No	Inl	7981928 1C.NO.00070	
					00	1C.NO. 0007C	)
		j	INSTRUCTIONS				
In Column I	identify all USEPA hazardo	us waste co	des that apply to th	nis waste ship	ment.	-	
	, choose the appropriate trea		•				
In Column 3	, enter the appropriate Sub	category, if	applicable, and al	so enter "Co	ntaminat	ted Soil" or "Debris" if t	the
	treated using one of the aite					c) (sou) or 268.45 (debris)	١.
-	circle the letter of the appro	-	-				
I- C-1 /							
	for F001-F005, F039, D001-						om 1
	for F001-F005, F039, D001- Guide-LDR/UHC Constitu						om
EQ Resource	Guide-LDR/UHC Constitu	ent Table fo	or any constituents	subject to tre		in your waste stream.	
					eatment i		R(S)
EQ Resource	Guide-LDR/UHC Constitu I. USEPA HAZARDOUS	2. NWW or	or any constituents	subject to tre	T THE BE	in your waste stream.  5. REFERENCE NUMBE  of Hazardous Constituer  contained in the waste.	R(S)
EQ Resource  Munifest Line Item	Guide-LDR/UHC Constitu	2.	or any constituents	subject to tre	T THE BE ED?	in your waste stream.  5. REFERENCE NUMBE of Hazardous Constituer	R(S)
Manufest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	or any constituents	HOW MUS WASTE MANAG (Circle o	T THE BE ED? luc) E F	5. REFERENCE NUMBE of Hazardous Constituer contained in the waste. Complete for F001-F005, F	R(S)
EQ Resource  Munifest Line Item	I. USEPA HAZARDOUS WASTE	2. NWW or	or any constituents	HOW MUS WASTE MANAG (Circle C A B C H I M S	TTHE BE ED? (ac) E F K L	5. REFERENCE NUMBE of Hazardous Constituer contained in the waste. Complete for F001-F005, F	R(S)
Manufest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	or any constituents	HOW MUS WASTE MANAG (Circle of C H I J M S A B C D	TTHE BE ED?	5. REFERENCE NUMBE of Hazardous Constituer contained in the waste. Complete for F001-F005, F D001-D043, Soil & Debris w	R(S) nts
Manufest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	or any constituents	HOW MUS WASTE MANAC (Circle of C H I J M S	TTHE BE ED? toet) EF KL	5. REFERENCE NUMBE of Hazardous Constituer contained in the waste. Complete for F001-F005, F D001-D043, Soil & Debris w	R(S)
Manufest Line Item #	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW UNWW	or any constituents	HOW MUS WASTE MANAG (Circle of C H I J M S A B C D C H I J	TTHE BE ED? lace) E F K L E F	5. REFERENCE NUMBE of Hazardous Constituer contained in the waste. Complete for F001-F005, F D001-D043, Soil & Debris w	R(S)
Manufest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	J. SUBCATEGORY	HOW MUS WASTE MANAC (Circle of H I J M S A B C D C H I J M S A B C D C H I J M S A B C D C H I J M S A B C D C H I J M S A B C D C H I J M S S A B C D C H I J M S S A B C D C H I J M S S S A B C D C H I J M S	TTHE BE ED? lose) E F K L E F K L	5. REFERENCE NUMBE of Hazardous Constituer contained in the waste. Complete for F001-F005, F D001-D043, Soil & Debris w	R(S)
Manufest Line Item #	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW DWW DWW	J. SUBCATEGORY	HOW MUS WASTE MANAC (Circle o  C H I J  M S  A B C D  C H I J  M S  A B C D  C H I J  M S  A B C D  C H I J	TTHE BE ED? noe) E F K L E F K L E F	5. REFERENCE NUMBE of Hazardous Constituer contained in the waste. Complete for F001-F005, F D001-D043, Soil & Debris w	R(S)

#### HOW MUST THE WASTE BE MANAGED?

アフェルス

For S, circle the appropriate response for the 3 italicized options:

Printed Name

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WA ND DOES / DOES NOT EXHIBIT A (CORCLE ONE) (CDACLE ONE) CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CTRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification. including the possibility of fine and imprisonment.

	erify the wastes specified on Manifest #  ly disposed of in accordance with all local, s	19819) 8 tate and federal regulations
	of" means either: 1) Burial or 2) Processed as spe	_
	· · · · · · · · · · · · · · · · · · ·	
	, ;	:
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment P. (EPA I.D. # MID000724831)	lant Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111	+ (1 - (1)
PHONE NUMBER	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	$\sim$ $\sim$
Authorized Signature		V '



STATE OF ILLINOIS

P.O BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

P	LE/	ASE TYPE (Form designed for use on elite (1)		EPA Form 8700	-22 (Rev. 6-89)	F	orm Approved	OMB No	2050-0039	
4	1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US IND 04 0	EPA ID No 0 8 8 8 9 9 2	Manifest Document No	1	a rec	ormation juired by F lois law	n the shaded area ederal law, but is re	as is not equired by
	3	414 Plaza Drive		n If Different 9 Industrial H	dahuan	A. tilir	ois Manifes	t Docum	nent Number FEE PAII	
		Suite 106 Westmont, IL 60559  24 HOUR EMERGENCY AND SPILL ASSIST	Gars	7. TN 46406	Tanway	B. Ge ID	nerator's (L Number	1/8	00/99	190
	5	Transporter I Company Name	206/31036	US EPA ID Nu	mber	ID	nsporter's Number	WA L	1000 186	7436
	7	Transporter 2 Company Name	8	US EPA ID Nu	<u> </u>	E Tra	insporter's f insporter's Number	hone (	173649-5	<u>~}\</u>
	9	Designated Facility Name and Site Address	10	US EPA ID Nu	mber	<u> </u>	nsporter's f	Phone (	)	
		Clean Harbors Services Inc 11800 South Stony Island A				ID			60000	
П		Chicago, IL 60617	I	LD0006					) 646-6202	
	L	I. US DOT Description (Including Proper Shippi		·	12. Conta	Type	13 Total Quantity	ļυ	4. nit Vol Waste	
G E N	l a.	HAZARDOUS WASTE LIQUID, N. TRICHLOROETHYLENE & WATER)	O.S. (TETRA , 9, NA3082	. & !, III					EPA HW N	umber 3 9
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	d	43	^						EPA HW Nu	umber
	Ļ	Additional Description for Materials Listed Abov				K Han	l l l	for Was	stes Listed Above	
		L1a CH143756B D040	е				em #14	ior was	sies Listed Abovi	е
	15	Special Handling Instructions and Additional In	nformation	•					# NB22789	12
								W	J# ND22703	,,
	16	GENERATOR'S CERTIFICATION: I hereby decla proper shipping name and are classified, packed, according to applicable international and national	marked, and labeled,	, and are in all respects in				vay		
		If I am a large quantity generator, I certify that I I be economically practicable and that I have select and future threat to human health and the environ	ted the practicable me iment; OR, if I am a s	ethod of treatment, storag small quantity generator, I	e, or disposal cur	renlly av	adable to me	which n	ninimizes the pres	sent
		select the best waste management method that is  Printed/Typed Name  // A/GII/	FOR 6500	that I can afford Signature	1	,			Date Month Day	Year
♥		DAYID PYPES- FNOUST	KIN Highw	Ay Grave	).A.K	$\nearrow$	Aren	+	_0306	0 0
T R A	17.	Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Materials /	Signature	· /				Month Day	Year
ลิ ร	(,	ROLGET A SOLIT		July 5	TA. Sx.	hu	E,		0306	CC
ខ្លុំ	18	Transporter 2 Acknowledgement of Receipt of	Matenals	<u> </u>					Date	
T E R		Printed/Typed Name		Signature					Month Day	Year
7	19	Discrepancy Indication Space								
F A C										
'		Facility Occasion at Occasion 2011					<del></del>	<del></del>	<del></del>	
٠ſ	_	Facility Owner or Operator. Certification of rece Printed/Typed Name	ipt of hazardous ma	signature Signature	nanifest except a	s noted	ın ıtem 19.		Month Day	Year
		necv is authorized to require pursuant to illinois Revise								

Manifest No. 717558362

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code. Circle the appropriate handling code, as follows:
- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
   2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

### SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043

100

COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3. WASTEWATER/ NON-WASTEWATER			UMN I NG		
	[]	D001	Ignitables, except High TOC subcategory	[]	WW [] Non-WW	1	2	3	4	6
	[]	D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[ ]	Non-WW only	1A	•	3	6	
	[]	D002	Corrosives	[]	WW [] Non-WW	1	2	3	4	6
	[]	D003								
		[ ]	Reactive Sulfide, per 261.23(a)(5)	[]	WW [] Non-WW	1	3	4	5	6
		[]	Reactive Cyanide, per 261.23(a)(5)	[]	WW [] Non-WW	1	3	4	5	6
		[]	Explosive, per 261 23(a)(6), (7) & (8)	[ ]	WW [] Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW only	1	2	3	4	6
		( )	Other Reactive, per 261.23(a)(1)	[ ]	WW [] Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	[ ]	WW [] Non-WW	1	3	4	5	6
	[ ]	D004	Arsenic	[]	WW [] Non-WW	1	2	3	4	6
	[ ]	D005	Barıum		WW [] Non-WW	1	2	3	4	6
<del></del>	( )	D006								
	•	[ ]	Cadmium	[ ]	WW [] Non-WW	1	2	3	4	6
		[ ]	Cadmium Containing Batteries	ii	Non-WW only	2	3	6		
	1 1	D007	Chromium	ri	WW [] Non-WW	1	2	3	4	6
	ii	D008		٠,	( ,	•	_	-	•	•
		[ ]	Lead	r 1	ww [] Non-ww	1	2	3	4	6
		ii	Lead Acid Batteries	ìi	Non-WW only	2	3	6	•	•

## SECTION 1. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1 LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3. WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[ ] D009 [ ] Low Mercury, less than 260 mg/kg Mercury [ ] High Mercury Organic Subcategory [ ] High Mercury Inorganic Subcategory [ ] D010 Selenium [ ] D011 Silver [ ] D012 Endrin [ ] D013 Lindane [ ] D014 Methoxychlor [ ] D015 Toxaphene	[] WW [] Non-WW [] Non-WW only [] Non-WW only [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6
	<pre>[ ] D016 2,4-D [ ] D017 2,4,5-TP (Silvex) [ ] D018 Benzene [ ] D019 Carbon tetrachloride [ ] D020 Chlordane [ ] D021 Chlorobenzene [ ] D022 Chloroform [ ] D023 o-Cresol [ ] D024 m-Cresol [ ] D025 p-Cresol</pre>	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	2 3 4 5 6 2 3 4 5 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D026 Cresol [] D027 1,4-Dichlorobenzene [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D032 Hexachlorobenzene [] D033 Hexachlorobutadiene [] D034 Hexachloroethane [] D035 Methyl ethyl ketone	[ ] WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
- Na	[] D036 Nitrobenzene [] D037 Pentachlorophenol [] D038 Pyridine    D039 Tetrachloroethylene   D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
SECTION II  COLUMN 1.  LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES FOO1 THROUGH FOO5  COLUMN 2.  WASTE CODE / CONSTITUENTS	COLUMN 3 WASTEWATER/ NON-WASTEWATER	COLUMN 4 · HANDLING CODE
	[ ] F001 [ ] F002 [ ] F003 [ ] F004 [ ] F005	[] WW [] Non-WW	3 4 5 6
	1. ALL F001-F005 [ ] 12. Cyclohexanone 2. Acetone [ ] 13. o-Dichlorobenz 3. Benzene [ ] 14. 2-Ethoxyethano 4. n-Butyl alcohol only) 5. Carbon disulfide [ ] 15. Ethyl acetate 6. Carbon tetrachloride [ ] 16. Ethyl benzene 7. Chlorobenzene [ ] 17. Ethyl ether 8. o-Cresol [ ] 18. Isobutyl alcoh 9. m-Cresol (difficult to [ ] 19. Methanol distinguish from [ ] 20. Methylene chlop-cresol) [ ] 21. Methyl ethyl k distinguish from [ ] 22. Methyl isobuty distinguish from [ ] 23. Nitrobenzene m-cresol) [ ] 23. Nitrobenzene m-cresol) [ ] 24. 2-Nitropropane (sum of o-, m- and p-cresol)	zene [ ] 26. col (F005 [ ] 27. [ ] 28. [ ] 29. col [ ] 30. col [ ] 31. col [ ] 32. col [ ] 32. col [ ] 32. col [ ] 33. col [ ] 33.	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloro- ethane 1,1,2-Trichloro- ethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoro- methane Xylene - mixed isome: (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. <u>TL85836</u>

SECTION III. CALIFORNIA LIST WASTES COLUMN 2: COLUMN 1: COLUMN 3 · COLUMN 4: LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER Hazardous waste containing one or more of the following [ ] WW [ ] Non-WW 1 2 3 4 5 6 California List constituents: ALL CALIFORNIA LIST CONSTITUENTS Liquids with nickel greater than or equal to 134 mg/1[ ] [ ] Liquids with thallium greater than or equal to 130 mg/l Liquids with PCB's > or = 50 ppm [ ] Waste containing HOC's > or = 1,000 mg/kg SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES) COLUMN 2: COLUMN 4: COLUMN 3: WASTE CODE / SUBCATEGORY LINE ITEM WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER [ ] WW [ ] Non-WW 3 4 5 6 [ ] WW [] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW [ ] WW [ ] Non-WW

[ ] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.

[ ] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name:

### KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA)

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

## SECTION 1. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

[ ] Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

#### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (FO39) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as FO39 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

#### SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

CECTION IN LIE	ST OF CONSTITUENTS - INCLUDE MANIFEST LIN	IC TTCM	
	[] Acenaphthylene	72.	( ) Chlordano /alpha and games
34	[ ] Acenaphthene	/2.	[ ] Chlordane (alpha and gamma isomers)
35	[ ] Acetone	73.	[] p-Chloroaniline
36. 37.	{ } Acetonie { } Acetonitrile	74.	[ ] Chlorobenzene
38.	[] Acetophenone	75.	[ ] Chlorobenzilate
39.	[ ] 2-Acetylaminofluorene	76.	[ ] 2-Chloro-1,3-butadiene
40.	[] Acrolein	77.	[] Chlorodibromomethane
41.	[] Acrylamide (*)	78.	[] Chloroethane
42.	[] Acrylonitrile	79.	[ ] bis(2-Chloroethoxy)methane `
251.	{ } Aldicarb sulfone (*)	80.	[ ] bis(2-Chloroethyl)ether
43.	[] Aldrin	81.	[] Chloroform
44.	[] 4-Aminobiphenyl	82.	[ ] bis(2-Chloroisopropyl)ether
45.	[ ] Aniline	83.	
	[] Anthracene	84.	• • •
46	[] Antimony	85.	<pre>[ ] 2-Chloroethyl vinyl ether (*) [ ] Chloromethane (Methyl Chloride)</pre>
48.	[] Aramite	86	[] 2-Chloronaphthalene
49.	[] Arsenic	87.	[] 2-Chlorophenol
50.	{   alpha-BHC	88.	[] 3-Chloropropylene
51.	[] beta-BHC	89.	[] Chromium (Total)
52.	[] delta-BHC	90.	[] Chrysene
53.	[ ] gamma-BHC	91.	[] o-Cresol
252.	[] Barban (*)	92.	[] m-Cresol (difficult to
54.	[] Barium	···	distinguish from p-Cresol)
253.	[] Bendiocarb (*)	93	[] p-Cresol (difficult to
255.	[ ] Benomyl (*)		distinguish from o-Cresol)
55.	[ ] Benzene	262.	[] m-Cumenyl methylcarbamate (*)
56.	[ ] Benz(a)anthracene	94	[] Cyanides (Total)
57.	[ ] Benzal chloride (*)	95	[] Cyanides (Amenable)
58.	[] Benzo(b)fluoranthene (difficult	263.	[] Cycloate (*)
	to distinguish from	96.	[ ] Cyclohexanone
	Benzo(k) fluoranthene)	97.	[] 1,2-Dibromo-3-chloropropane
59.	[ ] Benzo(k)fluoranthene (difficult	98.	[ ] 1,2-Dibromoethane (Ethylene dibromide
	to distinguish from	99.	[] Dibromomethane
	Benzo(b) fluoranthene)	100.	[ ] 2,4-Dichlorophenoxyacetic acid (2,4-D
60.	[ ] Benzo(g,h,1)perylene	101.	( ) o,p'-DDD
61.	[] Benzo(a)pyrene	102.	( ) p,p'-DDD
62	[] Berylium	103.	[ ] o,p'-DDE
63.	[ ] Bromodichloromethane	104.	[ ] p,p'-DDE
64.	[ ] Bromomethane (Methyl bromide)	105.	[ ] o,p'-DDT
65.	[ ] 4-Bromophenyl phenyl ether	106.	[ ] p,p'-DDT
66.	[ ] n-Butyl alcohol	107.	[ ] Dibenz(a,h)anthracene
256	[ ] Butylate (*)	108.	[ ] Dibenzo(a,e)pyrene
67.	[ ] Butyl benzyl phthalate	109.	[ ] m-Dichlorobenzene
68.	[ ] 2-sec-Butyl-4,6-dinitrophenol	110.	[ ] o-Dichlorobenzene
	(Dinoseb)	111.	[ ] p-Dichlorobenzene
69.	[ ] Cadmium	112.	[ ] Dichlorodifluoromethane
257.	[ ] Carbaryl (*)	113.	[ ] 1,1-Dichloroethane
258.	[ ] Carbendazım (*)	114.	[ ] 1,2-Dichloroethane
259.	[ ] Carbofuran (*)	115.	[ ] 1,1-Dichloroethylene
260.	[ ] Carbofuran phenol (*)	116.	[ ] trans-1,2-Dichloroethylene
70.	[ ] Carbon disulfide	117.	[ ] 2,4-Dichlorophenol
71.	[ ] Carbon tetrachloride	118.	[ ] 2,6-Dichlorophenol
261.	[ ] Carbosulfan (*)	119.	[ ] 1,2-Dichloropropane
		120.	[ ] cis-1,3-Dichloropropylene
		121.	[ ] trans-1,3-Dichloropropylene

122.	[ ] Dieldrin	181.	[ ] Methyl ethyl ketone
123	[ ] Diethyl phthalate	182	[] Methyl isobutyl ketone
123.		102	
124.	[ ] 2,4-Dimethyl phenol	183.	[ ] Methyl methacrylate
125	( ) Dimethyl phthalate	184	[] Methyl methansulfonate
126.	[ ] Di-n-butyl phthalate	185	[ ] Methyl parathion
127.	[ ] 1,4-Dinitrobenzene	274	[ ] Metolcarb (*)
128.	[ ] 4,6-Dinitro-o-cresol	275.	<pre>{ } Mexacarbate (*)</pre>
130	[ ] 2,4-Dinitrophenol	276.	[] Molinate (*)
129		106	
130	[ ] 2,4-Dinitrotoluene	186	[ ] Naphthalene
131	[ ] 2,6-Dinitrotoluene	187	[ ] 2-Naphthylamine
132.	[ ] Di-n-octyl phthalate	188.	[ ] Nickel
133.	[ ] p-Dimethylaminoazobenzene (*)	189	[ ] o-Nitroaniline (*)
134.	[ ] Di-n-propylnitrosoamine	190.	[ ] p-Nitroaniline
135	[ ] 1,4-Dioxane (*)	191.	[] Nitrobenzene
135.	[] Diphenylamine (difficult to	102	[ ] 5-Nitro-o-toluidine
136.		192	
	distinguish from	193	[] o-Nitrophenol (*)
	diphenylnitrosamine)	194	[ ] p-Nitrophenol
137.	[ ] Diphenylnitrosamine (difficult to	195	[ ] N-Nitrosodiethylamine
- · <del>- ·</del>	distinguish from diphenylamine)	196.	[ ] N-Nitrosodimethylamine
138	[ ] 1,2-Diphenylhydrazine	197.	[ ] N-Nitroso-di-n-butylamine
139.	[ ] Disulfoton	198.	[] N-Nitrosomethylethylamine
266	[ ] Dithiocarbamates (Total) (*)	199.	[] N-Nitrosomorpholine
266.		300	
140.	[] Endosulfan I	200	[ ] N-Nitrosopiperidine
141.	[ ] Endosulfan II	201.	( ) N-Nitrosopyrrolidine
142	[ ] Endosulfan sulfate	277.	[ ] Oxamyl (*)
143.	[ ] Endrin	202	[ ] Parathion
144.	[ ] Endrın aldehyde	203.	[ ] Total PCBs (sum of all PCB isomers,
267	[ ] EPTC (*)		or all Arochlors)
267		270	[ ] Pebulate (*)
145		278	• •
146	[ ] Ethyl cyanide (propanenitrile)	204.	[ ] Pentachlorobenzene
147.	[ ] Ethyl benzene	205	[ ] PeCDDs (All pentachlorodibenzo-
148.	[ ] Ethyl ether		p-dioxins)
149.	<ul><li>bis(2-Ethylhexyl)phthalate</li></ul>	206	[ ] PeCDFs (All pentachlorodibenzofurans)
150.	[ ] Ethyl methacrylate	207	[ ] Pentachloroethane (*)
151.	[] Ethylene oxide	208.	[ ] Pentachloronitrobenzene
152	[] Famphur	209.	[ ] Pentachlorophenol
152.	[] Fluoranthene	210	[ ] Phenacetin
153		210.	
154.	[] Fluorene	211	[] Phenanthrene
155.	[ ] Fluoride	212	[ ] Phenol
268.	<pre>[ ] Formetanate hydrochloride (*)</pre>	213.	( ) Phorate
156.	[ ] Heptachlor	214.	[ ] Phthalic acid (*)
157.	[] Heptachlor epoxide	215.	[ ] Phthalic anhydride
150	[] Hexachlorobenzene	280.	[ ] Physostigmine (*)
158.	[] Hexachlorobutadiene	281.	[ ] Physostigmine salicylate (*)
159.		201.	
160	[] Hexachlorocylopentadiene	282.	[] Promecarb (*)
161	[ ] HxCDDs (All hexachlorodibenzo-	216	[ ] Pronamide
	p-dioxina)	283	[ ] Propham (*)
162	[ ] HxCDFs (All hexachlorodibenzo-	284	[ ] Propoxur (*)
	furans)	285.	[ ] Prosulfocarb (*)
163	( ) Hexachloroethane	217.	[] Pyrene
164		210	•
164.		218.	
165	[] Indeno (1,2,3-c,d)pyrene	219.	[] Safrole
270	[ ] 3-Iodo-2-propynyl	220.	[ ] Selenium
	n-butylcarbamate (*)	221	[ ] Silver
166.	[ ] Iodomethane	222.	[ ] Silvex (2,4,5-TP)
167.	[ ] Isobutyl alcohol	223.	[ ] Sulfide
168.	[] Isodrin	224.	[ ] 2,4,5-T (2,4,5-Trichlorophenoxyacetic
169	[] Isosafrole	·	acid)
169.	[] Kepone	225	[ ] 1,2,4,5-Tetrachlorobenzene
170.		225.	
171.	[] Lead	226.	[ ] TCDDs (All tetrachlorodibenzo-
172.	[ ] MercuryNonwastewater from Retort		p-dioxiua)
173	[ ] MercuryAll others	227.	[ ] TCDFs (All tetrachlorodibenzofurans)
174.	[ ] Methacrylonitrile	228	[ ] 1,1,1,2-Tetrachloroethane
175.	[] Methanol	220	[] 1,1,2,2-Tetrachloroethane
176	[] Methapyrilene	230.	Tetrachloroethylene
176.	· ·	231	
272.	[] Methiocarb (*)	231.	[] 2,3,4,6-Tetrachlorophenol
273.	[] Methomyl (*)	232.	[] Thallium
177.	[] Methoxychlor	286	[ ] Thiodicarb (*)
178	[ ] 3-Methylcholanthrene	287.	<pre>[ } Thiophanate-methyl (*)</pre>
179.	[ ] 4,4-Methylene-bis(2-chloroaniline)	233	[ ] Toluene
180.			
	[ ] Methylene chloride	234	[ ] Toxaphene
		234 289	<pre>{</pre>
		234 289 235	· · · · · · · · · · · · · · · · · · ·

			ENTAL SERVICES, INC. ION NOTIFICATION FORM LDR-1	ADDENDUM Manı	lfest No	IL8558362
236.		{ ]	1,2,4-Trichlorobenzene	244.	( )	1,1,2-Trichloro-1,2,2-trifluoroethan
237.		[]	1,1,1-Trichloroethane	290.	[]	Triethylamine (*)
238.		[ ]	1,1,2-Trichloroethane	245.	[]	tris-(2,3-Dibromopropyl)phosphate
239.	- Ta	_ 1/4	Trichloroethylene	246.	[]	Vanadium (*)
240.		ī ( )	Trichloromonofluoromethane	291	[]	Vernolate (*)
241.		[]	2,4,5-Trichlorophenol	247	[]	Vinyl chloride
242.		[]	2,4,6-Trichlorophenol	248	()	Xylenesmixed isomers sum of o-,
243.		[]	1,2,3-Trichloropropane			m-, and p-xylene concentrations)
				249	[ ]	Zinc (*)

#### KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in §268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in §268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]



## **Waste Tracking Report**

September 12,2000

Page 1

IND040888992

IN0188

6500 Industrial Highway Group

Gary, IN

Manifest Dates: 01/01/00

o 09/12/00

CHI Receiving Facility: Clean Harbors - Chicago, IL

Mnfst No: IL8558362

A24P

Gen Sign Date: 03/06/00

Date Received: 03/06/00

Drum No Code

Qty UOM

**Disposal Site** 

Manifest Out

Date M-Code

Line: 11A

Disposar Oite

Manifested Qty:

1 TT

680 G

1586731

680 GALS

Profile No: CH143756B

Clean Harbors - Baltimore, MD MDC0866443

03/15/00 M085



## **Waste Tracking Report**

September 12,2000

Page 2

Clean Harbors - Chicago, IL 11800 South Stony Island Ave Chicago, IL 60617 ILD000608471

Certificate of Treatment/Disposal - Storage and Transfer

IL8558362

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Signed:	MIA	Date: 9/13/2
Title:	SPA	

FOR SHIPMENT OF HAZARDOL AND SPECIAL WASTE

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

STATE OF ILLINOIS

PL	EASE TYPE (Form designed for use on elite (	(12 pitch) typewriter)	EPA Form 8700-22 (H	ev. 6-89)		Form Approved Of	MB No 2	050-0039
1	UNIFORM TO THE WASTE MANIFEST	1. Generator's US EF	1	Manifest Document No 9/1050/				shaded areas is not aw, but is required by
	3. Generator's Name and Mailing Address 63.0 Industrial Highway Group 414 Plaza Drive, Stite 106 Westmont, IL 60559	6499	If Different Industrial Highway	•	11	nois Manifest Docum	nent Nu 43	mber FEE PAID IF APPLICABLE
		-	, Indiana			enerator's IL Number   9  1	8 (0 )	011919191
	4. *24 HOUR EMERGENCY AND SPILL ASSISTAN 5. Transporter 1 Company Name	ICE NUMBERS* (6	30) 325–1300 US EPA ID Numb	er		anenorter's	35046	
П	North Branch					ansporter's Phone (		
	7. Transporter 2 Company Name	8.	US EPA ID Numb	er		ansporter's		
П						Number		
	9. Designated Facility Name and Site Address CID BLTC	<b>10</b> .	US EPA ID Numb	er		ansporter's Phone (		
	138th and I-94	•			10	Number   U 3		<u>0 ₁0 ₁0 ₁0 ₁0</u>
	Calumet City, IL 60409				H. Fa	cility's Phone (773		6-3099
	11. US DOT Description (Including Proper Shipping	Name, Hazard Class,	and ID Number)	12. Contai	ners	13. Total	14. Unit	l
G				No.	Туре	Quantity	Wt/Vol	Waste No.
E	a.   Non-hazardous Special Waste Wate	r ·				}		EPA HW-Number
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	J. Additional Description for Materials Listed Above	<del></del>		<u> </u>	К На	ndling Codes for Wa	etac Lis	stad Above
1						item #14	ioleo Lic	sied Above
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1	Profile No. BG 018				İ			
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	15. Special Handling Instructions and Additional Info	rmation DOGT						
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	16. GENERATOR'S CERTIFICATION: I hereby decl	are that the contents	of this consignment are fully a	nd accurately	describ	ed above by		
	proper shipping name and are classified, packed according to applicable international and national	l, marked, and labeled	, and are in all respects in pro					
	If I am a large quantity generator, I certify that I	<b>3</b>		I toxicity of wa	ste ae:	nerated to the degre	e I hav	e determined to
	be economically practicable and that I have sele and future threat to human health and the enviro	cted the practicable m	ethod of treatment, storage, o	r disposal curr	ently a	vailable to me which	minim	izes the present
	select the best waste management method that i	is available to me and	that I can afford.					Date
_	Printed/Typed Name Ayunt Fox 65	WIndvara	Signature				٨	Month Day Year
<u> </u>	VAVIDITIES- MISHWAYGI		1,2,4					110599
R	17. Transporter 1 Acknowledgement of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Management of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receipt of Receip	afenals	Compture					Date *
TRANSPORTER	Finited Typed Name		Signature	5			Λ·	Month Day Year
P	18 Transporter 2 Acknowledgement of Receipt of Ma	atenals	Jan Say	-XI			—-i/	Date
Ř	Printed/Typed Name		Signature				—- <u> </u>	Month Day Year
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	19. Discrepancy Indication Space					<del> </del>		
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Ÿ	20. Facility Owner or Operator: Certification of receip Printed/Typed Name	njor <del>nazardose</del> -materia	Signature Signature	cepras noted	ın iten	1 19		Date fonth Day Year
	( )/h (	NU		1			1 1	110099
Th	s Agency is authorized to require pursuant to Illinois Revise	ed Statute, 1989, Chapte	r 111 1/2, Section 1004 and 1021	, that this inform	nation t	e submitted to the Ag	ency Fa	ulure to provide this
iut	ormation may result in a civil penalty against the owner or oper onsonment up to 5 years. This form has been approved by the	rator not to exceed \$25,00 Forms Management Cent	o per day of violation. Falsification ter	oi this informatio	n may r	esuit in a tine up to \$50	),000 per	day of violation and

	7		Sta	ate Form	LPC 62 8/81	IL532-06	610			AND SP	ECIAL WASTE
PI	LE	ASE TYPE (Form designed for use on elite	(12 pitch) typewriter)		EPA Form 870	00-22 (Rev	. 6-89)		Form Approved	OMB No	2050-0039
1	\	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EF	A ID No		199	Manifest scument No	2 Page			shaded areas is not law, but is required by
		3. Generator's Name and Mailing Address 6500 Industrial Highway Group 414 Plaza Drive, Suite 106	Location 6499	Indust	rial High				5 Manifest Doc 7934	3 4 4	umber FEE PAID IF APPLICABLE
$\  \ $		Westmont, IL 60559 4. *24 HOUR EMERGENCY AND SPILL ASSISTAN	• •	India (630)	325 <b>-</b> 1300			IDN		11810	011191919191
П	l	5. Transporter 1 Company Name	6.		US EPA I	D Number	. <u> </u>	ID N		JPM 35	
П	ļ	North Branch				<del></del>			sporter's Phone	(630)	529-0240
$\  \ $		7. Transporter 2 Company Name	8. <b> </b>		US EPA II	D Number	ī	E. Trans	sporter's umber	_	
П	I	9. Designated Facility Name and Site Address	10.		US EPA II	D Number			porter's Phone	( )	
$\  \ $	1	CID BLIC 138th and I-94	_						umber [U]		10101010151
П	1	Calumet City, IL 60409	1					H. Facili	ty's Phone (7	73 646	5-3099
G		11. US DOT Description (Including Proper Shipping	Name, Hazard Class,	and ID N	lumber)		12. Contail No.	ners Type	13. Total Quantity	14. Unit Wt/Vol	<del> </del>
Ε	ľ	a. Non-hazardous Special Waste Wate	mr		,				70-20		EPA HW Number
N E		<u>-</u>	<del>-</del>				0.0.1	TI	3500	G	EPA HW Number
R	ľ	D.									CFA NW Number
т	H								<del></del>		EPA HW Number
R	1	<b>.</b>									Cr A 1117 Number
							_ · _ · _				EPA HW Number
$\ \cdot\ $	ľ	1.				ł					C A TIV Number
$\ $			.=								
	ľ	I. Additional Description for Materials Listed Above							ing Codes for \ m #14	Wastes L	isted Above
		Basin Water Profile No. BG 018									
	ľ	5 Special Handling Instructions and Additional Info	mation								
	1	<ol> <li>GENERATOR'S CERTIFICATION: I hereby decliproper shipping name and are classified, packed according to applicable international and national</li> </ol>	l, marked, and labeled,	, and are						- 4.5	
		If I am a large quantity generator, I certify that I be economically practicable and that I have sele and future threat to human health and the environment.	cted the practicable m	ethod of	treatment, sto	orage, or o	disposal curr	ently ava	lable to me wh	ich minin	nizes the present
	L	select the best waste management method that	s available to me and	that I ca	n afford.	<del></del>					Date  Month Day Year
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TR	1	7 Transporter 1 Acknowledgement of Receipt of M Printed Typed Name	atenals	Signati	t I	/	<u> </u>				Date Month Day Year
ZSS		100 Duckt	<u> </u>			- ()	M	itt	フ		(1055
TRANSPORTER	1	<ol> <li>Transporter 2 Acknowledgement of Receipt of M. Printed/Typed Name</li> </ol>	atenals	Signati	ire	-/-				1	Date Month Day Year
Ė		Time or ypas reams		Oiginaid							
F	1	9. Discrepancy Indication Space									
FACILI				/		) /	<b>ว</b>				
Ī T Y	2	0. Facility Owner or Operator: Certification of receip	t of hazardous materia	ils dovere	ed by this may	nitest syce	pt as noted	ın ıtem 1	9		Date
		Printed/Typed Name		Signatu	ire (	1				;	Month Day Year
เกร	OIT	Agency is authorized to require, pursuant to lilinois Revisionation may result in a civil penalty against the owner or opersonment up to 5 years. This form has been approved by the	ator not to exceed \$25,00	0 pøfrdday	Section 1004 and total solution of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of t	and 1021, sification of	that this information	nation be n may resu	submitted to the ilt in a line up to	Agency. F \$50,000 pe	allure to provide this er day of violation and

PO BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

· · · · · · · · · · · · · · · · · · ·	HAZARDOUS MANIFEST		US EPA ID No. 1 0 8 8 8 9 9 2	Manifest OOO 2	7	of 1 Illino	s law	he shaded areas is not eral law, but is required by
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414 Plaza Suite 106	Drive	6.1	99 Industrial H	i ahway		L 8493	3996	) IF APPLICABLE
Westmont.	TL 60559	Ga	rv. IN 46406	LYMMAY	B. C	enerator's I	181	0,1,9,9,9,9
4. *24 HOUR EMER	IL 60559 GENCY AND SPILL ASSIST	TANCE NUMBER	S800-645-8265				11010	16/1/1/1/1/1/
5. Transporter 1 Com	npany Name	6.	US EPA ID Nun			ransporter's D Number U	PWO	1807430K
CLEANHARDON	IS ENV. SERVICO	3 LAR.	MAD03934	1150	D. T	ransporter's Ph	one (7/	849-1800
7. Transporter 2 Com	ipany Name	8.	US EPA ID Nun	nber		ransporter's Number		
9. Designated Facility	Name and Site Address	10.	US EPA ID Nun	nber	F. T.	ransporter's Ph	one (	)
	ors Services In				IC			00001511
Chicago, I	h Stony Island A T. 60617	nve	ILD00060	8471	H. Fa	acility's Phone	⁽ 773 ⁾ 6	46-6202
	ion (Including Proper Shipp	ing Name, Hazard		12. Cont	ainers	13	14.	1.
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Manifest No. 11349396

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(3).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
  - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
  - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
  - 2 The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
  - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
  - 6 = The waste 18 a lab pack that 18 intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I.	CHARAC	TERIST	CIC WASTES DOOL THROUGH DO									
COLUMN 1:			COLUMN SO TE		-	UMN				UMN		
LINE ITEM			WASTE CODE / SUBPAPEGORY =		WAST		•	HA	NDL	ING	CO	DE
SEE MANIFEST			<u>0</u> 8 H		NON-WA	STEW	IATER					
	[]	D001	Ignitables, except ingh TOC subcategory	[ ]	WW	[]	Non-WW	1/2	_2	3	4	6
11 14-	TQ:	D001	High TOC Ignitable httpuids Subcategory	V4	_Non-WW	onl	у	ĮΊΑ	ノ	3	6	
			(Greater than or equalito 10€TOC)	*				_				
·	[ ]	D002	Corrosives	[ ]	WW	[]	Non-WW	1	2	3	4	6
	[ ]	D003	<b>™</b> ≥ □									
		[]	Reactive Sulfide, per 261123(2)(5)	[]	WW	[]	Non-WW	1	3	4	5	6
		[]	Reactive Cyanide, pen 261-33(a) (5)	[]	WW	[]	Non-WW	1	3	4	5	6
		[]	Explosive, per 261.23(4)(61,>(7) & (8)	[ ]	WW	[]	Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.11(a)(2), (3) & (4)	[]	Non-WW	onl	У	1	2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	[]	WW	[]	Non-WW	1	2	3	4	6
		[ ]	Unexploded Ordnance, Emergency Response	[]	WW	[]	Non-WW	1	3	4	5	6
	[]	D004	Arsenic	[]	WW	[]	Non-WW	1	2	3	4	6
	[]	D005	Barıum	[]	WW	[]	Non-WW	1	2	3	4	6
	[]	D006										
		[]	Cadmium	[]	WW	[]	Non-WW	1	2	3	4	6
٠.٨		[ ]	Cadmium Containing Batteries	[]	Non-WW	onl	y 0	92.	ı	6		
1164	(LL	D007	Chromium	[ ]	WW	[/]	Non-WWA	721	2	13	4	6
	(T)	D008	ı				(1	K.		,		
		[ ]	Lead	[ ]	WW	( J	Non-WW	1	2	3	4	6
		[ ]	Lead Acid Batteries	[]	Non-WW	onl	У	2	3	6		

## SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM	-	COLUMN 2: WASTE CODE / NAME	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE
SEE MANIFEST			NON-WASTEWATER
	e00d [] [] [] []	Low Mercury, less than 260 mg/kg Mercury High Mercury Organic Subcategory High Mercury Inorganic Subcategory	[] WW [] Non-WW 1 2 3 4 [] Non-WW only 2 3 4 [] Non-WW only 2 3 4
	[ ] D010 [ ] D011	Selenium Silver	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[] D012 [] D013	Endrın Lındane	[] WW [] Non-WW 2 3 4 5 6 [] WW [] Non-WW 2 3 4 5 6
	[ ] D014	Methoxychlor	[] WW [] Non-WW 2 3 4 5 6
<del></del>	[ ] D015 [ ] D016	Toxaphene 2,4-D	[] WW [] Non-WW 2 3 4 5 6 [] WW [] Non-WW 2 3 4 5 6
	[] D017	2,4,5-TP (Silvex)	[] WW [] Non-WW 2 3 4 5 6
	[ ] D018 [ ] D019	Benzene Carbon tetrachloride	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[] D020	Chlordane	[] WW [] Non-WW 1 2 3 4 6
	[ ] D021 [ ] D022	Chloroform Chloroform	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[ ] D023	o-Cresol	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[ ] D024 [ ] D025	m-Cresol p-Cresol	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[ ] D026 [ ] D027	Cresol 1,4-Dichlorobenzene	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[] D027 [] D028		[] WW [] Non-WW 1 2 3 4 6
<del></del>	[ ] D029 [ ] D030	-,	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[ ] D031		[] WW [] Non-WW 1 2 3 4 6
<del></del>	[ ] D032 [ ] D033	Hexachlorobenzene Hexachlorobutadiene	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[ ] D034		[] WW [] Non-WW 1 2 3 4 6
<del></del>	[ ] D035 [ ] D036	Methyl ethyl ketone Nitrobenzene	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[ ] D037		[] WW [] Non-WW 1 2 3 4 6
<del></del>	[ ] D038 [ ] D039	•	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
	[] D040	Trichloroethylene	[] WW [] Non-WW 1 2 3 4 6
		2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	[] WW [] Non-WW 1 2 3 4 6 [] WW [] Non-WW 1 2 3 4 6
		Vinyl Chloride	[] WW [] Non-WW 1 2 3 4 6
SECTION II.	SPENT SOLVE	NT WASTES FOO1 THROUGH FOO5	
COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: COLUMN 4: WASTEWATER/ HANDLING CODE NON-WASTEWATER
114	F001	F002 [ F003 [ ] F004 [ F00	05 [] WW [ Non-WW 3 4/ 5 6
	7. Chlorobe 8. o-Cresol 9. m-Cresol distingui p-cresol 10. p-Cresol distingui m-cresol)	[ ] 13. o-Dichlorobe       14. 2-Ethoxyetha   only   isulfide       15. Ethyl acetate     16. Ethyl benzen     17. Ethyl ether     18. Isobutyl alc   (difficult to       19. Methanol   sh from     20. Methylene ch       21. Methyl ethyl   (difficult to       22. Methyl isobutyl isobutyl	26. Tetrachloroethylend   27. Toluene   28. 1,1,1-Trichloroethane   29. 1,1,2-Trichloroethane   29. 1,1,2-Trichloroethane   30. Trichloroethylene   31. 1,1,2-Trichloroethylene   31. 1,2-Trichloroethylene   32. Trichloroethane   32. Trichloromonofluoroethylene   33. Xylene - mixed ison

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1

	71 54980	701 i
Manıfest No.	140/2	116

SECTION III.	CALIFORNIA LIST WASTES									
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W.	COLUMN ASTEWA: -WASTE	TER/	HANI		MIN (		3
	Hazardous waste containing one or more of the following California List constituents:	[]	WW	[ ]	Non-WW	1 2	3	4	5	6
·	<ul> <li>ALL CALIFORNIA LIST CONSTITUENTS</li> <li>Liquids with nickel greater than or equal to 134 mg</li> <li>Liquids with thallium greater than or equal to 130</li> <li>Liquids with PCB's &gt; or = 50 ppm</li> <li>Waste containing HOC's &gt; or = 1,000 mg/kg</li> </ul>									
SECTION IV. O	THER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-	, U-	, AN	D P-COI	DES)					
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W	Column Astewat - Waster	TER/	CC HANE		MIN 4		5
		( )	ww	[ ]	Non-WW	3	4	5	6	
		[]	ww	[ ]	Non-ww	3	4	5	6	
		[ ]	WW	( )	Non-ww	3	4	5	6	
		[ ]	ww	[ }	Non-WW	3	4	5	6	
		[ ]	ww	[ ]	Non-WW	3	4	5	6	
[ ] CHECK HER	IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE E IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT I AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	·. 1	DENT	IFY FO	39 CONST	TITUENTS				ETING
SECTION V. CO	NTACT NAME AND DATE									
Print Name:	THOMAS J. RYSILLUICZ	Da	te: _	10	)-0	6, - 5	3			

#### KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

Manifest No.	$\widehat{\mathbb{L}}_{I}$	9UC	1 39	Clt-	
					_

#### SECTION I. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

Check here if one or more of the constituents l'isted in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

[ ] Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

#### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

#### SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [ ] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

SECTION IV.	LIST OF CONSTITUENTS - INCLUDE MANIFEST LI	NE ITEM		
34	[] Acenaphthylene	72.	( )	Chlordane (alpha and gamma
35	[ ] Acenaphthene	. *		isomers)
36.	[] Acetone	73.	[]	p-Chloroaniline
37.	[] Acetonitrile	74.	[]	Chlorobenzene
38.	[ ] Acetophenone	75.	[]	Chlorobenzilate
39.	[ ] 2-Acetylaminofluorene	76.	[]	2-Chloro-1,3-butadiene
40.	[] Acrolein	77.	[]	Chlorodibromomethane
41.	[ ] Acrylamide (*)	78.	[]	Chloroethane
42.	[ ] Acrylonitrile	79.	[]	bis(2-Chloroethoxy)methane
251.	[ ] Aldicarb sulfone (*)	80.	[ ]	bis(2-Chloroethyl)ether
43.	[ ] Aldrin	81.	[]	Chloroform
44.	[ ] 4-Aminobiphenyl	82.	[]	bis(2-Chloro:sopropyl)ether
45.	[] Aniline	83.	[]	p-Chloro-m-cresol
46.	[ ] Anthracene	84.	[]	2-Chloroethyl vinyl ether (*)
47.	[] Antimony	85.	[]	
48.	[] Aramite	86.	Ü	
49.	[] Arsenic	87.	ίi	
50.	[] alpha-BHC	88.	ii	
51.	[] beta-BHC	89.	ii	
52.	[] delta-BHC	90.	ii	
53.	[ ] gamma-BHC	91.	ii	<u>-</u>
252.	[ ] Barban (*)	92.	ii	
54.	[ ] Barium			distinguish from p-Cresol)
253.	[ ] Bendiocarb (*)	⁻ 93.	[]	p-Cresol (difficult to
255.	<del></del>			distinguish from o-Cresol)
55.	[] Benzene	262.	[]	
56.	[] Benz(a)anthracene	94.	ìi	• •
57.	[] Benzal chloride (*)	95.	ii	- ·
58.	[ ] Benzo(b)fluoranthene (difficult	263.	ii	•
	to distinguish from	96.	ii	- ·
	Benzo(k) fluoranthene)	97.	ii	•
59.	[ ] Benzo(k)fluoranthene (difficult	98.	ii	
	to distinguish from	99.	ii	•
	Benzo(b) fluoranthene)	100.	ii	2,4-Dichlorophenoxyacetic acid (2,4-1
60.	[ ] Benzo(g,h,1)perylene	101.		
61.	[] Benzo(a)pyrene		( )	
62.	[] Berylium	102.		• •
63.	[] Bromodichloromethane	103. 104.	[]	<del>-</del>
64.	[] Bromomethane (Methyl bromide)		[]	• • •
65.	[] 4-Bromophenyl phenyl ether	105.	( )	•
66.	[] n-Butyl alcohol	106.	[]	
256.	[] Butylate (*)	107.	[]	
67.	[] Butylate (-/ [] Butyl benzyl phthalate	108	[]	• • • •
68.	[] 2-sec-Butyl-4,6-dinitrophenol	109	[]	
•••	(Dinoseb)	110		
60	[] Cadmium	111.	[]	-
69. 257.	[] Carbaryl (*)	112.	[]	
	<del>-</del>	113.		1,1-Dichloroethane
258	<del></del>	114	[]	
259	[ ] Carbofuran (*)	115.	( )	•
260.	• • • • • • • • • • • • • • • • • • • •	116	[]	trans-1,2-Dichloroethylene
70.	[] Carbon disulfide	117.	[]	
71.	[] Carbon tetrachloride	118.	[]	
261.	[] Carbosulfan (*)	119.	[]	
	1	120.	[]	
		121.	[ ]	trans-1,3-Dichloropropylene

LAND DISPOSAL	RESTRIC	TION NOTIFICATION FORM LDR-1 ADDENDU	m manifes	L NO	1
122	. []	Dieldrin	181.	ſ 1	Methyl ethyl ketone
122.	- ::		182.	( )	
123	- ;;		183.	ίí	•
124.	- ;;		184.	ίi	•
125	- ;;	Di-n-butyl phthalate	185.		Methyl parathion
126			274.	ìi	
127.	- ::	4,6-Dinitro-o-cresol	275	[]	
.29.	- ; ;	·	275	( )	
129	- []	<del>_</del>	276.	{ }	
130.	- } }	2,4-Dinitrotoluene	186.	( )	
131	- ;;	2,6-Dinitrotoluene	187.	[]	
132.	- !!	Di-n-octyl phthalate	188.	()	
133.	_ []		189		
134.	_ []		190	[]	-
135.	- []		191.	[]	
136	_ []		192	[]	
		distinguish from	193.	[]	•
		diphenylnitrosamine)	194	[]	- ·
137.	_ []		195.	[]	•
		distinguish from diphenylamine)	196.	[]	•
138		1,2-Diphenylhydrazine	197.	[]	
139.	- []		198	[]	
266	_ []		199.	[]	
140.	_ []		200.		N-Nitrosopiperidine
141.	_ []		201		N-Nitrosopyrrolidine
142.	_ ()		277		Oxamyl (*)
143	_ []		202.		Parathion
144	_ (1	<u> </u>	203.		Total PCBs (sum of all PCB isomers,
267	_ ()	EPTC (*)			or all Arochlors)
145	_ (1		278		Pebulate (*)
146	_ ()		204	[]	
147	_ []	Ethyl benzene	205	[]	-
148.	_ []	Ethyl ether			p-dioxins)
149.	[ [ ]	bis(2-Ethylhexyl)phthalate	206	[]	PeCDFs (All pentachlorodibenzofurans)
150.	[ []	Ethyl methacrylate	207	[]	Pentachloroethane (*)
151.		Ethylene oxide	208	[]	Pentachloronitrobenzene
152.	[ ]	Famphur	209	[ ]	Pentachlorophenol
153.	[ []	Fluoranthene	210	[]	Phenacetin
154.	[ []	Fluorene	211.	[ ]	Phenanthrene
155.	_ []	Fluoride	212	[ ]	Phenol
268.	_ ()	Formetanate hydrochloride (*)	213.	{ }	Phorate
156.	- ()	Heptachlor	214.	[]	Phthalic acid (*)
157.	ii -	<del>-</del>	215.	[ ]	Phthalic anhydride
158.	i i	-	280.	[]	Physostigmine (*)
159.	_	Hexachlorobutadiene	281.	[]	Physostigmine salicylate (*)
160.	- (j		282.	[]	Promecarb (*)
161.	- ( i		216.	[]	Pronamide
	- ` `	p-dioxins)	283.	[]	Propham (*)
162.	£ 1	HxCDFs (All hexachlorodibenzo-	284.	( j	Propoxur (*)
	- ''	furans)	285.	ίi	
163	r 1	Hexachloroethane	217.	( )	
164.	- ::	Hexachloropropylene	218.		Pyridine
165.		Indeno (1,2,3-c,d)pyrene	219.	[]	
270.	ii -		220.	[]	
	• ''	n-butylcarbamate (*)	221.	ij	
166.	[]	Iodomethane	222.		Silvex (2,4,5-TP)
167.	_ ii	Isobutyl alcohol	223.	ίí	
168.	ii -	•	224.	ίί	
169.	: i i	Isosafrole		• •	acid)
170.	- ii		225	1 1	1,2,4,5-Tetrachlorobenzene
i71.	<u> </u>	-	226.	ìi	
172.	- ii	MercuryNonwastewater from Retort		• •	p-dioxins)
173.	- ii	MercuryAll others	227.	[]	-
174.	- ;;	Methacrylonitrile	228. 111	ī <b>y</b> i	1,1,1,2-Tetrachloroethane
175.	[ ]	•	229.	(Zi	1,1,2,2-Tetrachloroethane
176		Methapyrilene	230.		Tetrachloroethylene
176.	- ii		231	Ü	
272.	- []	Methomyl (*)	231.	1	
273.	_ []	-	232	[]	
177.	- 11		286.	[]	
178.	- []	4 4-Methylene-hig/2-chloroaniline	287.	[2]	•
179.	- ;;	4,4-Methylene-bis(2-chloroaniline) Methylene chloride	234.	4G	
180	_ ''	weenliene curoride	289	( )	Triallate (*)
			289 235	( )	Tribromomethane (Bromoform)
				. ,	122011044111

•				10,000	
CLEAN HARBO	RS ENVIRONM	ENTAL SERVICES, INC.		VUU (90/C)	
LAND DISPOS	AL RESTRICT	TION NOTIFICATION FORM LDR-1	ADDENDUM Manı	ifest No.	
236.	[]	1,2,4-Trichlorobenzene	244	[ ] 1,1,2-Trichloro-1,2,2-trifluoroeth	hane
237.	( )	1,1,1-Trichloroethane	290.	[ ] Triethylamine (*)	
238.	[]	1,1,2-Trichloroethane	245.	[ ] tris-(2,3-Dibromopropyl)phosphate	
239.	[]	Trichloroethylene	246.	[ ] Vanadıum (*)	
240.		Trichloromonofluoromethane	291.	[] Vernolate (*)	
241.		2,4,5-Trichlorophenol	247.	[ ] Vinyl chloride	
242	[]	2,4,6-Trichlorophenol	248.	[ ] Xylenesmixed isomers (sum of o-,	,
243.	[]	1,2,3-Trichloropropane	<del></del> -	m-, and p-xylene concentrations)	
	<del></del>		249	[ ] Zinc (*)	

#### KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in \$268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in \$268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]



## **Waste Tracking Report**

February 23,2000 Page 18

Clean Harbors - Chicago, IL 11800 South Stony Island Ave Chicago, IL 60617 ILD000608471

## Certificate of Treatment/Disposal - Storage and Transfer

1			
IL8493061	IL8493267	IL8494412	
IL8493075	IL8493268	IL8494413	
IL8493074	IL8493270		
IL8493100	IL8493271		
IL8493099	IL8493356		
IL8493097	IL8493362		
IL8493098	IL8493439		
IL8493131	IL8493469		
IL7418744	IL8493470		
IL8493238	IL8493996		
IL8493239	IL8494038		
IL8493236	IL8494037		
IL8493265	IL8494039		
IL8493264	IL8494411		

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Signed:	Sarah Mitcheel	Date:	2/3/00
Title:	Sola Supplier Max		

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

EPA Form 8700-22 (Rev. 6-89)

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

6500 INDUSTRIAL HIGHWAY GROUP **PLEASE TYPE** 

LPC 62 8/81

IL532-0610

(Form designed for use on elite (12-pitch) typewnter) Form Approved OMB No 2050-0039 Manufest 1. Generator's US EPA ID No. 2 Page 1 Information in the shaded areas is not required by Federal law, but is required by UNIFORM HAZARDOUS Document N **WASTE MANIFEST** INDØ4088899 A. Illinois Manifest Document Number 3. Cobador Endanc textile alling laddress Group Location If Different FEE PAID 414 Plaza Drive IF APPLICABLE Suite 106 6499 Industrial Highway Generator's 4. '24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 800-645-8265 Westmont, IL 60559 IN 46406 ID Number Transporter's 9 UPW03281031 US EPA ID Number 5. Transporter 1 Company Name ID Number OZINGA TRANSPORTA 984 775 049 D. Transporter's Phone (70%) 720-6000 7. Transporter 2 Company Name US EPA ID Number 8 Transporter's **ID Number** F. Transporter's Phone ( US EPA ID Number 9. Designated Facility Name and Site Address 10 G. Facility's IL ID Number 10 13 11 16 10 10 10 10 15 11 Clean Harbors Services Inc 11800 South Stony Island Ave H. Facility's Phone (773) 646-6202 D000608 <u>Chicago, IL 60617</u> 11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12 Containers 13 14. Unit Total Waste No. Type Quantity Wt/Vo FPA HW Number HAZARDOUS WASTE SOLID, N.O.S. (tetrachloroethane, Xylene), 9, NA3077, III Ε FAA 00 1 Cm Ε **EPA HW Number** b. R EPA HW Number o C. **EPA HW Number** d. J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 11a CH144097B F003, F005, D006 Y = CUBICYARDS BOX1121 (20-955) ; 200 2 3 3 3 15. Special Handling Instructions and Additional Information wo# NB204438-NB 204737 VOLUMIS IS ESTIMATES 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date HOUT FOR Printed/Typed Name Year Month Day IHOMAIJ. RISIEWILZ 6000 WOIKWY 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year SARRY NELSON DRIVER 18. Transporter 2 Acknowledgement of Receipt of Materials Day Printed/Typed Name Signature 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed/Typed Name Month Day Signature Year MOUNTCO This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency Failure to provide this information may result in a chil penalty against the owner or operator not to exceed \$25,000 per day of violation. Faisfication of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Manifest No. IL8494412

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
  - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
  - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
  - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
  - 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
  - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- *** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

#### SECTION I. CHARACTERISTIC WASTES DOOL THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST			COLUMN 2: WASTE CODE / SUBCATEGORY			COL WAST AW-NON	EWA	TER/			UMN ING		
<del></del>	[ ]	D001	Ignitables, except High TOC subcategory	[ ]	-			Non-WW	1	2	3	4	6
	[ ]	D001	High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	ι.	J	Non-WW	on	тÀ	1A		3	6	
·	[]	D002 D003	Corrosives	( )	]	WW	{ }	Non-WW	1	2	3	4	6
	. ,	[]	Reactive Sulfide, per 261.23(a)(5)	[ ]	}	WW	[]	Non-WW	1	3	4	5	6
		Ü	Reactive Cyanide, per 261.23(a)(5)	i i	)	WW	( )	Non-WW	1	3	4	5	6
		[ ]	Explosive, per 261.23(a)(6), (7) & (8)	( )	]	WW	[ ]	Non-WW	1	2	3	4	6 `
		[ ]	Water Reactive, per 261.23(a)(2), (3) & (4)	[ ]	]	Non-WW	on	ly	1	2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	1	]	WW	[]	Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	[ ]	}	WW	[ ]	Non-WW	1	3	4	5	6
	[ ]	D004	Arsenic	[ ]	)	WW	[]	Non-WW	1	2	3	4	6
	[ ]	D005	Barıum	[ ]	}	WW	[ ]	Non-WW	1	2	3	4	6
<u> </u>	[X]	D006								_	•	•	
		[./]	Cadmium	[ ]	]	WW	[7]	Non-WW	1 (	(2)	3	4	6
		[ ]	Cadmium Containing Batteries	[ ]	)	Non-WW	on	ly	2	3	6		
	[]	D007	Chromium	[ ]	]	WW	[]	Non-WW	1	2	3	4	6
		( )	Lead	( )	1	WW	[ ]	Non-WW	1	2	3	4	6
		Ü	Lead Acid Batteries	į	•	Non-WW			2	3	6	-	-

Manifest No.

### SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME		WASTE	JMN 3: SWATER/ STEWATER	COLUMN HANDLING	
	[ ] D009 [ ] Low Mercury, less than 26	0 mg/kg Mercury [		Non-WW	1 2 3	4
	[ ] High Mercury Organic Subc	_	Non-WW		2 3 4	
	[ ] High Mercury Inorganic Su [ ] D010 Selenium		[ ] Non-WW [ ] WW	Only	2 3 4 1 2 3	4 6
<del></del>	[ ] D010 Selenium [ ] D011 Silver			] Non-WW	1 2 3	4 6
	[] D012 Endrin	-		] Non-WW	2 3 4	5 6
	[ ] D013 Lindane	_	. : :	Non-WW	2 3 4	5 6
	[ ] D014 Methoxychlor	Ī	) ww [	] Non-WW	2 3 4	5 6
	[ ] D015 Toxaphene	1	] WW [	] Non-WW	2 3 4	5 6
	[ ] D016 2,4-D	I	-	] Non-WW	2 3 4	5 6
	[ ] D017 2,4,5-TP (S11vex)			] Non-WW	2 3 4	5 6
	[] D018 Benzene			] Non-WW	1 2 3	4 6
	[ ] D019 Carbon tetrachloride	· · · · · · · · · · · · · · · · · · ·		] Non-WW	1 2 3	4 6
	[] D020 Chlordane	•		] Non-WW ] Non-WW	1 2 3	4 6
	[] D021 Chlorobenzene [] D022 Chloroform			] Non-WW ] Non-WW	1 2 3	4 6
	[ ] D022 chickorim			Non-WW	1 2 3	4 6
	[] D024 m-Cresol	1	1 1	] Non-WW	1 2 3	4 6
	[] D025 p-Cresol			) Non-WW	1 2 3	4 6
	[] D026 Cresol	2	_ 1	] Non-WW		4 6
	[ ] D027 1,4-Dichlorobenzene	Į	} WW [	] Non-WW	1 2 3	4 6
	[ ] D028 1,2-Dichloroethane	Ţ	) ww [	] Non-WW	1 2 3	4 6
	[ ] D029 1,1-Dichloroethylene	ı	) ww {	] Non-WW	1 2 3	4 6
	[] D030 2,4-Dinitrotoluene		- : :	) Non-WW	1 2 3	4 6
	[ ] D031 Heptachlor (and its epoxi	_	*	] Non-WW	1 2 3	4 6
	[ ] D032 Hexachlorobenzene	-		Non-WW	1 2 3	4 6
	[ ] D033 Hexachlorobutadiene		- 1	] Non-WW	1 2 3	4 6
	[] D034 Hexachloroethane			] Non-WW	1 2 3	4 6
	[ ] D035 Methyl ethyl ketone {			Non-WW	1 2 3	4 6
	[] D036 Nitrobenzene [] D037 Pentachlorophenol		- I	] Non-WW ] Non-WW	1 2 3	4 6
	[] D037 Pentachlorophenol [] D038 Pyridine		1	] Non-WW	1 2 3	4 6
	[ ] D039 Tetrachloroethylene	_		Non-ww	1 2 3	4 6
	[ ] D040 Trichloroethylene		I	Non-WW	1 2 3	4 6
	[ ] D041 2,4,5-Trichlorophenol	į	] ww {	Non-WW	1 2 3	4 6
	[ ] D042 2,4,6-Trichlorophenol	t	) WW [	] Non-WW	1 2 3	4 6
	[ ] D043 Vinyl Chloride	t	) ww [	] Non-WW	1 2 3	4 6
SECTION II.	SPENT SOLVENT WASTES FOO1 THROUGH FOO	5				
COLUMN 1:	COLUMN 2:		COLI	MN 3:	COLUMN	4.
LINE ITEM	WASTE CODE / CONSTITUE	ENTS		WATER/	HANDLING	
SEE MANIFEST			NON-WAS			
114					_	
11/4	[ ] F001 [X] F002 [X] F003 [	] F004 [X] F005 [	) ww (	() Non-WW	3 4 (5	6) 6
[]	1. ALL F001-F005[]	12. Cyclohexanone			Pyridine	
[]	2. Acetone[]	13. o-Dichlorobenzene			Tetrachlor	oethylene
	3. Benzene[]	14. 2-Ethoxyethanol	(F005		Toluene	
[]	4. n-Butyl alcohol	only)		[] 28.	1,1,1-Tric	utoro-
<del></del>	5. Carbon disulfide [] 6. Carbon tetrachloride []	<ol> <li>Ethyl acetate</li> <li>Ethyl benzene</li> </ol>		[] 29.	ethane 1,1,2-Tric	hloro.
; ;	7. Chlorobenzene[]	17. Ethyl ether		1 23.	ethane	111010-
	B. o-Cresol	18. Isobutyl alcohol		_ [] 30.	Trichloroe	thvlene
	9. m-Cresol (difficult to []	19. Methanol			1.1.2-Tric	
	distinguish from[]	20. Methylene chlorid	ie ——		1,2,2-trifl	
	p-cresol) []	21. Methyl ethyl keto		[] 32.	Trichlorom	onofluoro-
[]	10. p-Cresol (difficult to []	22. Methyl isobutyl k	cetone ,,,	<b>\</b>	methane	
·	distinguish from[]	23. Nitrobenzene	11/	<u>}</u> [y] 33.	Xylene - m	ixed isomer
	m-cresol)	24. 2-Nitropropane (F	7005		(sum of o-,	m-, and
[]	11. Cresol - mixed isomers	only)			p-xylene) 🗸	
	(sum of o-, m- and					
	p-cresol)					

SECTION IIIC	CALIFORNIA LIST WASTES			
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	NO	COLUMN 3: WASTEWATER/ DN-WASTEWATER	COLUMN 4: HANDLING CODE
	Hazardous waste containing one or more of the follow California List constituents:	wing [] WW	[ ] Non-WW	1 2 3 4 5 6
	[ ] ALL CALIFORNIA LIST CONSTITUENTS [ ] Liquids with nickel greater than or equal to 13 [ ] Liquids with thallium greater than or equal to [ ] Liquids with PCB's > or = 50 ppm [ ] Waste containing HOC's > or = 1,000 mg/kg	-		
SECTION IV. OT	HER LISTED WASTES (F006-12, F019-F028, F037-38, F039	, K-, U-, A	ND P-CODES)	
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3: WASTEWATER/ N-WASTEWATER	COLUMN 4: HANDLING CODE
	·	_ [] ww	[] Non-WW	3 4 5 6
	· · · · · · · · · · · · · · · · · · ·	_ ( ) ww	[ ] Non-WW	3 4 5 6
		_ [] ww	[ ] Non-WW	3 4 5 6
		_ [] WW	[] Non-WW	3 4 5 6
<del></del> .		. [] ww	[ ] Non-WW	3 4 5 6
] CHECK HERE	IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPI IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRE AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLE	SENT. IDEN	TIFY F039 CONST	
ECTION V. CONT	FACT NAME AND DATE			

#### KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

nifest No.	JL8494412

SECTION	1	UNDERLYING	HAZADDONIS	CONST	THENTS	CURCES?	
SCOLION.		UNUCKLIING	MACAKUUUS	CURSI	ILOCALO	(Unt-3)	,

Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

[ ] Check here if NOWE of the UHC constituents listed in Section IV are expected to be present in the waste.

#### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

#### SECTION 111. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. 0001, 0002, and 0003 (non-cyanides subcategories only).

SECTION IV. 11	ST OF (	CONSTITUENTS - INCLUDE MANIFEST LI	NE ITEM		
34.	( )	Acenaphthylene	72.	[ ]	Chlordane (alpha and gamma
35.	ii	Acenaphthene	, c	. ,	isomers)
36.	ii	Acetone	73.	[]	p-Chloroaniline
37.	. ; ;	Acetonitrile	74.	1	Chlorobenzene
38.	. ;;	Acetophenone	75.	[]	Chlorobenzilate
39.	: :	2-Acetylaminofluorene			
40.		Acrolein	76. 77.	[ ]	2-Chloro-1,3-butadiene
41.				[ ]	Chlorodibromomethane
42.	[]	Acrylamide (*)	78. 79.	[]	Chloroethane
251.	[]	Acrylonitrile		[]	bis(2-Chloroethoxy)methane
43.	[ ]	Aldicarb sulfone (*)	80	[]	bis(2-Chloroethyl)ether
44.	[ ]	Aldrin	81	[]	Chloroform
	[ ]	4-Aminobiphenyl	82	[]	bis(2-Chloroisopropyl)ether
45.	. []	Aniline	83	[ ]	p-Chloro-m-cresol
46	[]	Anthracene	84	[]	2-Chloroethyl vinyl ether (*)
47.	[]	Antimony	85	[]	Chloromethane (Methyl Chloride)
48	[ ]	Aramite	86	[ ]	2-Chloronaphthalene
49.	[ ]	Arsenic	87,.	[ ]	2-Chlorophenol
50		alpha-BHC	88	[ ]	3-Chloropropylene
51	[ ]	beta-BHC	89.	[]	Chromium (Total)
52	[]	delta-BHC	90.	[ ]	Chrysene
53.	[]	gamma-BHC	91.	[]	o-Cresol
252.	[ ]	Barban (*)	92.	[ ]	m-Cresol (difficult to
54.	[ ]	Barium			distinguish from p-Cresol)
253	[]	Bendiocarb (*)	93	[]	p-Cresol (difficult to
255	[]	Benomyl (*)			distinguish from o-Cresol)
55.	[]	Benzene	262	[]	m-Cumenyl methylcarbamate (*)
56.	[]	Benz(a)anthracene	94.	[ ]	Cyanides (Total)
57.	[ ]	Benzal chloride (*)	95.	ίi	Cyanides (Amenable)
58.	ĹĬ	Benzo(b)fluoranthene (difficult	263.	ίi	Cycloate (*)
<del></del>		to distinguish from	96.	ίí	Cyclohexanone
		Benzo(k)fluoranthene)	97.	ίj	1,2-Dibromo-3-chloropropane
59.	[ ]	Benzo(k)fluoranthene (difficult	98.	ίĵ	1,2-Dibromoethane (Ethylene dibromide)
	_	to distinguish from	99.	ίĵ	Dibromomethane
		Benzo(b)fluoranthene)	100.	ij	2,4-Dichlorophenoxyacetic acid (2,4-D)
60.	[ ]	Benzo(g,h,i)perylene	101.	ii	o,p'-DDD
61.	ii	Benzo(a)pyrene	102	ii	p,p'-000
62.	ii	Berylium	102.	ίi	o,p'-DDE
63.	ii	Bromodichloromethane	103.	ij	p,p'-DDE
64.	ii	Bromomethane (Methyl bromide)	104.	ίi	o,p'-DDT
65.	ii	4-Bromophenyl phenyl ether	105.		
66.	ii	n-Butyl alcohol	106.	[]	p,p'-DDT
	ii	Butylate (*)	107.	[]	Dibenz(a,h)anthracene
256			108.	[ ]	Dibenzo(a,e)pyrene
68.	[]	Butyl benzyl phthalate	109.	[ ]	m-Dichlorobenzene
	. ,	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	110.	[ ]	o-Dichlorobenzene
69.	[ ]	Cadmium	111.	[ ]	p-Dichlorobenzene
	11		112.	( )	Dichlorodifluoromethane
	[ ]	Carbaryl (*) Carbendazim (*)	113.	[ ]	1,1-Dichloroethane
			114.	[ ]	1,2-Dichloroethane
259.	[]	Carbofuran (*)	115	[ ]	1,1-Dichloroethylene
260	[ ]	Carbofuran phenol (*)	116.	[]	trans-1,2-Dichloroethylene
70.	[]	Carbon disulfide	117	[]	2,4-Dichlorophenol
71.	[]	Carbon tetrachloride	118	[ ]	2,6-Dichlorophenol
261	[ ]	Carbosulfan (*)	119.	[]	1,2-Dichloropropane
			120.	[ ]	cis-1,3-Dichloropropylene

[] trans-1,3-Dichloropropylene

Thiophanate-methyl (*)

Tribromomethane (Bromoform)

[ ]

[ ]

[]

[ ]

[]

Toluene

Toxaphene

Triallate (*)

287.

233.

234.

289.

235.

178.

179.

180.

3-Methylcholanthrene

Methylene chloride

4,4-Methylene-bis(2-chloroaniline)

[]

[ ]

[ ]

		ENTAL SERVICES, INC. ION NOTIFICATION FORM LDR-1 ADDEND	UM Hanifest No	۰	ILS494412
236. 237. 238. 239. 240. 241. 242.		1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichloromonofluoromethane 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 1,2,3-Trichloropropane	244		1,1,2-Trichloro-1,2,2-trifluoroethane Triethylamine (*) tris-(2,3-Dibromopropyl)phosphate Vanadium (*) Vernolate (*) Vinyl chloride Xylenesmixed isomers (sum of o-, m-, and p-xylene concentrations)
			249.	[]	Zinc (*)

#### KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTI) are the specific constituents listed by waste code number in the Treatment Standard Table in §268.40. CSTI's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in §268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in §268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]

P O BOX 192	76 SPRING	GFIELD, ILLINOIS 62794-92	276 (217) 782-676	ì		PMENT OF HAZARDOUS CIAL WASTE
	:	State Form LPC 62 8/81	IL532-0610		7410 01 0	.o//.c 11/10/L
SE TYPE (Form designed for use on elite (12		EPA Form 8700		Form Ap	proved OMB N	lo 2050-0039
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's U		Manifest Document No.	2 Page 1		n in the shaded areas is n y Federal law, but is required t
GO 500 or Endine truth Hallin HAdylaway G		tion If Different	1000	A. Illinois M	lanifest Doc	ument Number
414 Plaza Drive	_	00 T-4	11 language	IL 8	4944	13 FEE PAID IF APPLICABLE
Suite 106 Westmont, IL 60559	Ga	99 Industrial H ry, IN 46406	11gnway	B. Generate ID Numb	or's 19/	8,90,1,9,9,9
*24 HOUR EMERGENCY AND SPILL ASSIST Transporter 1 Company Name		US EPA ID N	umbor	C. Transpor	ter's ()o(	V03Z81031
OZINGA TRANSPORTATION	<i>—</i>	ILD984-775				70x)720-600
Fransporter 2 Company Name	8.	US EPA ID No		E. Transpoi		VOX ) 120-600
Tansporter 2 Company Ivame				ID Numb		
Designated Facility Name and Site Address	10.	US EPA ID Nu	ımber	F. Transpor	·	( )
Clean Harbors Services Inc 11800 South Stony Island A				1	er 10 13 11	1610101010151
Chicago II. 60617	146	T I D 0 0 0 6		H. Facility's	Phone (77	13 ⁾ 646-6202
US DOT Description (Including Proper Shippi	ng Name, Hazard	Class, and ID Number)	12 Conta	ı_   .	13. Total	14. I. Unit Waste No.
		·	No	Type Q	uantity	Wt/Vol FPA HW Number
HAZARDOUS WASTE SOLID, N.C Trichloroethene), 9, NA307	).S. (Tolu 17. TIT	ene,				Faa
ironitoroculatio,, ,, miss,	,, 111		001	Cm	131	<b>Y</b>
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	-					5 - 1 15-
dditional Description for Materials Listed Abov	20		<u> </u>	K Handling	Codes for W	/astes Listed Above
1a CH144098B F003, F005;		•		Y. =	Cubi	CYARDS
Special Handling Instructions and Additional II	oformation	,4 -				
,	mormation					wo# <del>ND204441~</del>
VOLUMG USTIMATE	m					NBZ0474-2
10001118 03/1/1/1/1/1	30-20					
GENERATOR'S CERTIFICATION: I hereby declar proper shipping name and are classified, packed,	are that the content	ts of this consignment are fulled, and are in all respects i	ully and accurately in proper condition	described abo	ve by y highway	
according to applicable international and national	government regula	ations.			-	
If I am a large quantity generator, I certify that I to economically practicable and that I have selected for the environment to human health and the environ	nave a program in ted the practicable	method of treatment, stora	e and toxicity of w ige, or disposal cu	aste generated rrently available	to the degree to me which	h minimizes the present
and future threat to human health and the environ select the best waste management method that is	nment; OR, if I am s available to me a	a small quantity generator, nd that I can afford.	I have made a go	od faith effort t	o minimize m	·
Printed/Typed Name #600	MAY LS	Y) Signature			<del></del>	Month Day Yea
OMAS J CYSILLUICZ INC	HEWY CE		man A K	Hein	5	110999
Transporter 1 Acknowledgement of Receipt of	Materials	6.5	0		P	Date
Printed/Typed Name		Signatu)e	1 ,			Month Day Year
KON HALL		1 Kess F	Jace-			1/09/96
Transporter 2 Acknowledgement of Receipt of	Materials					Date
Printed/Typed Name		Signature				Month Day Year
		. <u> </u>				
Discrepancy Indication Space						
						<del></del>
acility Owner or Operator: Certification of reco	eipt of hazardous	<i></i>	manifest except	as noted in ite	em 19.	Date
Printed/Typed Name		Signature /	/	//		' Month Day Year

This Agency is authorized to require, pursuant to liftinois Revised Statute, 1989, Chapter 111 1/2, Section 1004/and 1021, that this information be submitted to the Agency Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Failsfication of this information may result in a fine up to \$50,000 per day of violation. Failsfication of this information may result in a fine up to \$50,000 per day of violation.

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE. WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
  - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
  - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
  - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
  - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
  - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form:
  - 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
  - 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, Ul34, and Ul51 are not eligible for alternative lab pack treatment standard.
- *** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

#### SECTION I. CHARACTERISTIC WASTES DOO1 THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: WASTEWATER/ NON-WASTEWATER	н		LUMN		
	[ ]	D001 Ignitables, except High TOC subcategory D001 High TOC Ignitable Liquids Subcategory  - (Greater than or equal to 10% TOC)	[ ] [ ]	-	WW [] Non-WW Non-WW only	1 12	2	3	4 6	6
	[]	D002 Corrosives D003	[ ]	]	WW [] Non-WW	1	2	3	4	6
		[ ] Reactive Sulfide, per 261.23(a)(5) [ ] Reactive Cyanide, per 261.23(a)(5)	[ ]	-	WW [] Non-WW	1	3	4	5 5	6 6
		[] Explosive, per 261.23(a)(6); (7) & (8)	i	-	WW [] Non-WW	ī	2	3	4	6
		[ ] Water Reactive, per 261.23(à)(2), (3) & (4)	[ ]	)	Non-WW only	1	2	3	4	6
		[ ] Other Reactive, per 261.23(a)(1)	[ ]	-	WW [] Non-WW	1	2	3	4	6
		[ ] Unexploded Ordnance, Emergency Response	[ ]	-	WW [] Non-WW	1	3	4	5	6
<del></del>	[ ]	D004 Arsenic	[ ]	•	WW [] Non-WW	1	2	3	4	6
114	[X]	D005 Barıum D006	ι.	}	WW-aou [ ] ww	1	2	3	, 4	6
		[Y] Cadmium	[ ]	1	ww (X) ww	1 (	(2)	3	4	6
		[ ] Cadmium Containing Batteries	[ ]	)	Non-WW only	2	$\checkmark$	6		
	[]	D007 Chromium D008	[ ]	J	WW [] Non-WW	1	2	3	4	6
	• •	[ ] Lead	E 1	)	WW [] Non-WW	1	2	3	4	6
		[ ] Lead Acid Batteries	[ ]	]	Non-WW only	2	3	6		

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SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] High Mercury Inorganic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-D [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlordane [] D021 Chloroform [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichlorobenzene [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D032 Hexachlorobenzene [] D033 Hexachlorobenzene [] D034 Hexachlorobenzene [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachlorophenol	WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-WW   Non-W	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
	[] D038 Pyridine [] D039 Tetrachloroethylene [] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Vinyl Chloride	[] WW [] Non-WW [] Ww [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW	1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVENT WASTES FOO1 THROUGH FOO5  COLUMN 2: WASTE CODE / CONSTITUENTS  [] FOO1   [] FOO2 [] FOO3 [] FOO4 [] FOO9	COLUMN 3: WASTEWATER/ NON-WASTEWATER  [] WW [Y] Non-WW	COLUMN 4: HANDLING CODE  3 4 (5) 6
	1. ALL F001-F005 [ ] 12. Cyclohexanone 2. Acetone [ ] 13. o-Dichloroben 3. Benzene [ ] 14. 2-Ethoxyethan only) 5. Carbon disulfide [ ] 15. Ethyl acetate 6. Carbon tetrachloride [ ] 16. Ethyl benzene 7. Chlorobenzene [ ] 17. Ethyl ether 8. o-Cresol [ ] 18. Isobutyl alco 9. m-Cresol (difficult to [ ] 19. Methanol distinguish from [ ] 20. Methylene chl p-cresol) [ ] 21. Methyl ethyl 10. p-Cresol (difficult to [ ] 22. Methyl isobut distinguish from [ ] 23. Nitrobenzene m-cresol) [ ] 24. 2-Nitropropan only) cresol - mixed isomers (sum of o-, m- and p-cresol)	25   26   27   28   29   29   29   20   20   20   20   20	Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,1,2-Trichloro- 1,2,2-trifluoroethane Trichloromonofluoromethane Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.

TI 861611117

LAND DISPOSAL	RESTRICTION NOTIFICATION FORM LDR-1 & Manife	st No	o	<u> </u>	2444	415				_
SECTION III.	CALIFORNIA LIST WASTES									
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		_	LUMN TEWAT	TER/		OLIN		1: CODE	
	Hazardous waste containing one or more of the following California List constituents:	[ ]	WW	[ ]	Non-WW	1 2	3	4	5 6	
	<pre>[ ] ALL CALIFORNIA LIST CONSTITUENTS [ ] Liquids with nickel greater than or equal to 134 mg. [ ] Liquids with thallium greater than or equal to 130 a [ ] Liquids with PCB's &gt; or = 50 ppm [ ] Waste containing HOC's &gt; or = 1,000 mg/kg</pre>									
SECTION IV. C	THER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-,	, <u>u</u> -,	AND	P-COL	ES)					
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2:			LUMN TEWAT ASTEW	ER/	CC H <b>AN</b> E	DLUM DLIN			
		[ ]	WW	[ ]	Non-WW	3	4	5	6	
<del></del>		[ ]	ww	[ ]	Non-WW	3	4	5	6	
		[ ]	ww	[ ]	Non-WW	3	4	5	6	
		[ ]	ww	[ ]	Non - WW	3	4	5	6	
		[ ]	ww	[ ]	Non-WW	3	4	5	6	
[ ] CHECK HER	E IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE E IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED	. 11	DENT I	Y FO	39 CONST					IG
	g.									
SECTION V. CO	NTACT NAME AND DATE									
					1 1 1					

Print Name: /HOMAS J, RYCIEWICZ ALGOT FOR 6500 INDUSTRIAL HIGHWAY PRP GROUP

# KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

Date: __

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

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#### SECTION I. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

[] Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

[ ] Check here if NOME of the UHC constituents listed in Section IV are expected to be present in the waste.

#### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

# SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

[] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.

[] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

SECTIO	DN IV. LIS	T OF	CONSTITUENTS - INCLUDE MANIFEST LI	NE ITEM		
34.		[]		72.	[]	Chlordane (alpha and gamma
35.		[ ]	Acenaphthene		-	isomers)
36.		[]	Acetone	<i>7</i> 3	[]	p-Chloroaniline
37		[]	Acetonitrile	74.		Chlorobenzene
38		[ ]	Acetophenone	75.	[]	Chlorobenzilate
39		[]	2-Acetylaminofluorene	76.	[]	2-Chloro-1,3-butadiene
40.		[]	Acrolein	77.	[]	Chlorodibromomethane
41.		[]	Acrylamide (*)	78.	[]	Chloroethane
42.		[ ]	Acrylonitrile	79.	<u> </u>	bis(2-Chloroethoxy)methane
251.		[ ]	Aldicarb sulfone (*)	80.		bis(2-Chloroethyl)ether
43.		[ ]	Aldrin	81.	ii	Chloroform
44.		[ ]	4-Aminobiphenyl	82.		bis(2-Chloroisopropyl)ether
45.		[ ]	Aniline	83.		p-Chloro-m-cresol
46.		Ü	Anthracene	84.		2-Chloroethyl vinyl ether (*)
47.		Ü	Antimony	85.		Chloromethane (Methyl Chloride)
48.		Ü	Aramite	86.		2-Chloronaphthalene
49.		ij		87:	i	2-Chlorophenol
50.		į į	alòha-RHC	* 88.		3-Chloropropylene
51.		ÜÌ	beta-RHC	89.		Chromium (Total)
52. ⁻		ίi	delta-BHC	90.		Chrysene
53.		ii	gamma - BHC	1.30 91.	ii —	o-Cresol
252.		ij	Barban (*)	92.		m-Cresol (difficult to
		ii	Barium	/•·		distinguish from p-Cresol)
		ii	Bendiocarb (*)	93	[]	
		ii	Benomyl (*)	· · · · · · · · · · · · · · · · · · ·	' '	distinguish from o-Cresol)
		ii	Benzene	262	[]	m-Cumenyl methylcarbamate (*)
		ii	Benz(a)anthracene	94.	— ii	Cyanides (Total)
57.		ii	Benzal chloride (*)			Cyanides (Amenable)
58.		ii	Benzo(b)fluoranthene (difficult			Cycloate (*)
<i>-</i>		. ,	to distinguish from	96.		Cyclohexanone
			Benzo(k)fluoranthene)	97.	— <u> </u>	1,2-Dibromo-3-chloropropane
59.		[ ]			<u> </u>	1,2-Dibromoethane (Ethylene dibromide)
٠,٠	<del></del>		to distinguish from	99.	[]	Dibromomethane
			Benzo(b)fluoranthene)		[]	2,4-Dichlorophenoxyacetic acid (2,4-D)
60.		[ ]		100.	— ;;	
61.	<del></del>		Benzo(g,h,i)perylene	101.	; <u>;</u>	o,p'-DDD
		( )	Benzo(a)pyrene Berylium	102.	[j	p,p'-000
63.	<del></del>			103.	LJ	o,p'-DDE
64.		[]	Bromodichloromethane	104.	— ; j	p,p'-DDE
		[]	Bromomethane (Methyl bromide)	105.	[]	o,p'-DDT
_	<del></del>	[]	4-Bromophenyl phenyl ether	100.	LJ	p,p'-DDT
66		ij	n-Butyl alcohol	107.	[]	Dibenz(a,h)anthracene
256		[ ]	Butylate (*)	· 100.		Dibenzo(a,e)pyrene
67		[]	Butyl benzyl phthalate	109.	[ ]	m-Dichlorobenzene
68		[ ]	2-sec-Butyl-4,6-dinitrophenol	· 110.	[ ]	o-Dichlorobenzene
40			(Dinoseb)	v : 111.	[ ]	p-Dichlorobenzene
69		[ ]	Cadmium	112.	[ ]	Dichlorodifluoromethane -
		[ ]	Carbaryl (*)	113.	[ ]	1,1-Dichloroethane
258.		[]	Carbendazim (*)	114.	[ ]	1,2-Dichloroethane
259.		[ ]	Carbofuran (*)	115.	[ ]	1,1-Dichloroethylene
260		( )	Carbofuran phenol (*)	116.	( )	trans-1,2-Dichloroethylene
		[ ]	Carbon disulfide	117	[]	
71	<del></del>	[ ]	Carbon tetrachloride	117.	[]	2,6-Dichlorophenol
261	<del></del>	[]	Carbosulfan (*)	119	[]	1,2-Dichloropropane
				120	[]	cis-1,3-Dichloropropylene

[] trans-1,3-Dichloropropylene

NA

Toluene

Toxaphene

Triallate (*)

Tribromomethane (Bromoform)

מל ז

[]

[]

233.

234.

289.

4,4-Methylene-bis(2-chloroaniline)

Methylene chloride

[ ]

179.

180.

		ENTAL SERVICES, INC. ION NOTIFICATION FORM LDR-1 ADDENDUM		Manifest No.		IL8494413
236.	[ ]	1,2,4-Trichlorobenzene	244.		[]	1,1,2-Trichloro-1,2,2-trifluoroethane
237. 110	(ប	1,1,1-Trichloroethane	290.		[]	Triethylamine (*)
238.	Ü	1,1,2-Trichloroethane	245.		[]	tris-(2,3-Dibromopropyl)phosphate
239.	ii	Trichloroethylene	246.		[]	Vanadium (*)
240.	[]	Trichloromonofluoromethane	291.		[ ]	Vernolate (*)
241.	[]	2,4,5-Trichlorophenol	247.		[]	Vinyl chloride
242.	[ ]	2,4,6-Trichlorophenol	248.		[]	Xylenesmixed isomers (sum of o-,
243.	[ ]	1,2,3-Trichloropropane				m-, and p-xylene concentrations)
	-	• •	249		ſl	Zinc (*)

### KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in §268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in §268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in §268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]



# Was - Tracking Report

February 2. J

Page 18

Clean Harbors - Chicago, IL 11800 South Stony Island Ave Chicago, IL 60617 ILD000608471

# Certificate of Treatment/Disposal - Storage and Transfer

IL8493061	Ş	IL8493267	IL8494412	<b>3</b> ,
IL8493075		IL8493268	IL8494413	
IL8493074		IL8493270		
IL8493100		IL8493271		
IL8493099		IL8493356		
IL8493097		IL8493362		
IL8493098	,	IL8493439		
IL8493131		IL8493469	•	
IL7418744		IL8493470		· .
IL8493238		IL8493996		
IL8493239		IL8494038		
IL8493236		IL8494037		
IL8493265		IL8494039		
IL8493264		IL8494411		

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Signed: Just Metabel	Date: <u>2/3/0</u> 0
Title: Sales Support Mar	

HIGAN AT 1.800.282-4706 OR OUT OF STATE AT \$17.373.7660 AND THE NATIONAL RESPONSE

VILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, 28 AT 1-800-424-8802 24 HOURS PER DAY.

# WASTE MANAGEMENT DIVISION **MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

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1	ame	bebn						

Failure to file may subject you to criminal and/or civil penalties under Section 324,11151 or 324 12116 MCL

				LATT. L	」 DIS. ∟	<u> </u>	REJ.			18 NO 20	11:W
Ü	ease	print or		1 Generator's U	S EPA ID No		Manifest	2 Pa			the shaded areas
1	1		WASTE MANIFEST	INIX	140888992	Docu	ument No	of			red by Federal
	3	Gen	erator's Name and Mailing Addres 6499 INDH STRIAL HIGHWAY 6499 INDH STRIAL HIGHWAY GARY, IN 46406 219 944-8957 erator's Phone (	414 W8	R & AUSOCIATES LPT 42A DE , SUIT ESTMONT, IL 5005	; 15 106		A SI	ate Manifest ( II <b>8027</b> ate Generator	380	nt Number
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	7	Tran	sporter 2 Company Name	8	US EPA	ID Numi	ber	E St	ate Transporte	's ID	1100
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   G	<u>_</u>	НМ	OOT Description (including Proper S ID NUMBER	R). 	Hazard Class, an	d	No No	Type	Total Quantity	Unit Wt/Vol	I. Waste No
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Ţ	20	Facilit Item	Owner or Operator Certification of	receipt of hazar	dous materials co	overed b	y this ma	nifest e	xcept as noted	in [	Date
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Please check the facility you are shipping to:

Michigan Disposal Waste Treatment

Plant
(Stabilization and Treatment)
49350 N 1-94 Service Drive

Belleville, MI 48111 EPA ID # MID 000 724 831

EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Freatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name

6500 INDUSTRIAL HIGHWAY GROUP Generator USEPA ID No.

IND040888992

Generator Address

6499 INDUSTRIAL HIGHWAY, GARY, IN 46406

State Manifest No.

8027380

Manifest Doc. No.

### INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item #	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D007,D039.D040	⊠nww □ww	N/A	A	
11.B		□NWW			
11.C		□www			
11.D		□www □ww			·

knowledge and information.	ALGUT FOR 6500 INDUSTRIAL
Generator Signature Thomas J. Cysury	Title HIGHWAY GROUP
Printed Name THOMAS J. RYSIGNICZ	Date 5-23-00

# HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A

(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

have been prope	erly disposed of in accordance with all local, state and the dof" means either: 1) Burial or 2) Processed as specified in 4	federal regulations.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	

Authorized Signature:_



3AN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE

LS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN AT 1-800-424-8802 24 HOURS PER DAY.

# **WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

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and Part	121	of	Act	451,	1994	as
amended.						

Failure to file may subject you to crime nal and/or civil penalties under Section 324 17151 or 324 12116 MCL ed OMB No 2050-0039

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		to be	a large quantity generator, I certify that economically practicable and that I have	selected the practic	able method of treatme	nt, storage, or di	sposal cur	rently available	to me	which minimizes the
			and future threat to human health and lon and select the best waste management me	thod that is available to	o me and that I can afford.	itity generator, I	have made	a good faith	effort to	minimize my waste Date
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# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to.

Michigan Disposal Waste Treatment
Plant

(Stabilization and Treatment) 49350 N I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831 
 ∑Wayne Disposal, Inc
 Subtitle C Landfill

 (Secure Hazardous Waste Landfill)
 49350 N I-94 Service Drive
 Belleville. MI 48111

 EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA 1D # MID 060 975 844

Generator Name

6500 INDUSTRIAL HIGHWAY GROUP Generator USEPA ID No.

IND040888992

Generator Address

6499 INDUSTRIAL HIGHWAY, GARY, IN 46406

State Manifest No.

8027382

Manifest Doc. No.

# INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item #	i. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. .Subcațegory	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D007,D039.D040	⊠nww □ww	N/A	Λ	
11.B		□NWW □WW			
11.C		□NWW □WW			
11.D		□NWW □WW			

I hereby certify that all information submitted on this and all associate	ed documents is complete and accurate to the best of my
knowledge and information.  Generator Signature	AGGIT FOR 6500 Title <u>JUDUSTEIN</u> HKHWAY GROUP
Printed Name THOMAL J. RYSIBULC?	Date 5-23-00

# HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

have been properly disp	the wastes specified on Manifest #posed of in accordance with all local, seans either: 1) Burial or 2) Processed as specified.		
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Pl (EPA I.D. # MID000724831)	lant [	Wayne Disposal, Inc. (EPA I.D # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER	1-800-592-5489	ì	
FAX NUMBER:	1-800-592-5329		



Authorized Signature:



# **WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF** ENVIRONMENTAL QUALITY

DO	NOT: WRITE	IN THIS	SPACE	
<b>ΛΤΤ.</b> 🗍	DIS. 🗌	REJ.		PR. 🗆

and Part 121 of Act 451, 1994, as amended

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324 12116 MCL.

Ple	ase print	NIFORM	7 , ○ MHAZARDO E MANIFEST	US 1. Ger	erator's US E	PA ID No 0888992	Manife Decumen	est 2 Pa	orm Approved O	MB No 2050-0039 lation in the shaded a trequired by Fed
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Please check the facility you are shipping to:

Michigan Disposal Waste Treatment
Plant

(Stabilization and Treatment) 49350 N I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831 Wayne Disposal, Inc
 Subtitle C Landfill
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 49350 N 1-94 Service Drive
 Belleville, MI 48111
 EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Freatment)
36345 Van Born Road
Romufus, MI 48174
EPA ID # MID 060 975 844

Generator Name

6500 INDUSTRIAL HIGHWAY GROUP Generator USEPA ID No.

IND040888992

Generator Address

6499 INDUSTRIAL HIGHWAY, GARY, IN 46406

State Manifest No.

8027383

Manifest Doc. No.

# **INSTRUCTIONS**

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Manifest Line Item #	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
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Generator Signat	ure_ Ther	und Rysu	wy Title	AGGUT FOR 6500 INDUSTRIAL HIGHWAT GROUP
Printed Name		J. RYSIEU	——————————————————————————————————————	C-23-00

# HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

This certificate is to verify the wastes specified on Manifest # 3027363
have been properly disposed of in accordance with all local, state and federal regulations.
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	• 1
	, ,	•
PHONE NUMBER:	1-800-592-5489	S. r
FAX NUMBER:	1-800-592-5329	7
Authorized Signature:		



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	16	GENERATOR'S CERTIFICATION: I hereby of	fectore that the contents of	this consignment are fully ar	nd accurately	/ describe	d abov	e by the p	roper sh	ipoino nam	ne.
		and are classified, packaged, marked and lab	elled/placarded, and are in	all respects in proper conditi	on for transp	ort accord	ding to	applicable	ıntema	tional and	,
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	Iπε	ereby certify that the above-named material is n	or nazardous waste as detir	ned by 40 CFR Part 261 or a	ту аррисал	e state tav	w.				
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Please type or print in block letters. (Form designed for use on eille (12-pitch) typewriter.) 1. Generator's US EPA ID No. Manifest 2 Page 1 NON-HAZARDOUS **WASTE MANIFEST** រាស់រាជ4 ៧ ខា ខា ខា Generator's Name and Mailing Address A. Non-hazardous Manifest Document Number 2 0051472 6500 INDUSTRIAL HIGHWAY GROUP 6499 INDUSTRIAL HIGHWAY GARY, IN 46406 Generator's Phone ( 218 944-8357 Transporter 1 Company Name US EPA ID Number WITVOET & CO C State Trans, ID Transporter 2 Company Name US EPA ID Number D. Transporter's Phone (708) 474-0044 E. State Trans, ID US EPA ID Number Designated Facility Name and Site Address 10
WASTE MANAGEMENT OF ILLINOIS-CID-RDF F Transporter's Phone ( P.O. BOX 1309 G State Facility's ID 188TH. & I-94 CALUMET CITY, IL 60409 H. Facility's Phone ( 1 11 11 10 10 11 10 21 81 646-3099 L Waste No 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Unit Wt/Vo Quantity NOT REGULATED BY D.O.T. а. 16.12 7 PROFILE JF027 a aNO NE b. C. ď K Handling Codes for Wastes Listed Above Additional Descriptions for Materials Listed Above JF027 15. Special Handling Instructions and Additional Information FOR MANIFEST DISCREPANCIES CONTACT 773-646-6660 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. Printed/Typed Name AGONT FOR 6500 Signature Year Month Day THOMAS J. RYSIBUICZ INO. HOWY GLOW 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year Signature 40 101/1/12/010 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Signature Month Day Year

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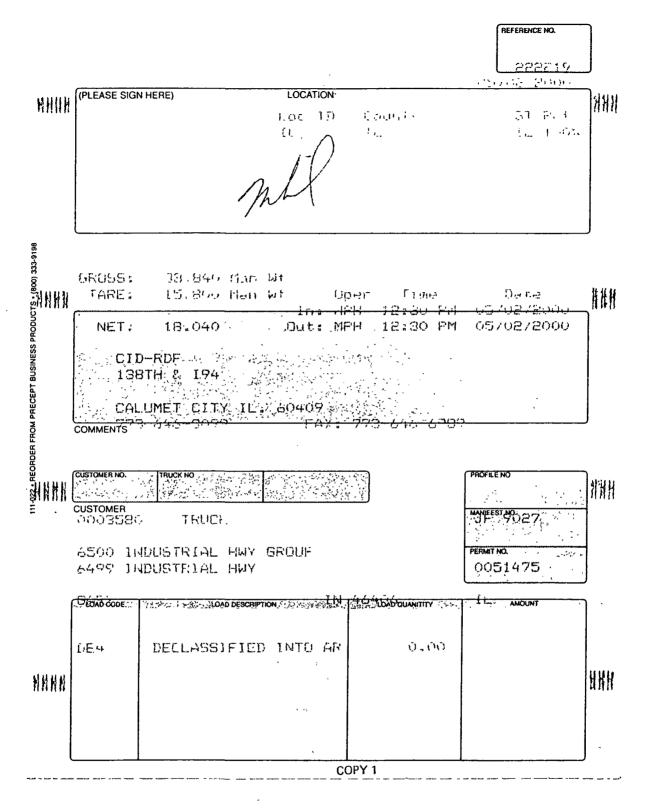
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	16.	GENERATOR'S CERTIFICATION: I hereby de and are classified, packaged, marked and label								
		national governmental regulations.								
	l he	reby certify that the above-named material is not	hazardous waste as defir	ned by 40 CFR Part 261 or	r any applicabl	le state law	1.			
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	3.	Generator's Name and Mailing Address 6500 INDUSTRIAL HIGHWAY 6499 INDUSTRIAL HIGHWAY	GROUP			<b>Z</b> (	hazardous I 051	<u>476</u>	Docume	ent Numb
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P.O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 LAB FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE AND SPECIAL WASTE 7189211

**Torruse on elite (12-pitch) typewriter)**

**EPA Form 8700-22 (Rev. 6-89)**

**FORM SHIPMENT OF HAZARDOUS AND SPECIAL WASTE 7189211

**FORM Approved OMB No 2050-0039**

UNIFORM HAZARDOUS  1. Generator's U		Manifest	2 Page 1	Information in	the shaded areas is not
WASTE MANIFEST	66992	Document No	o 2	required by Fi	ederal law, but is required by
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414 Plaza Drive Suite 106	O Industrial High	_	B. Generator	9309	/ IF APPLICABLE
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Clean Harbors Env. Services Inc.	MAD039322		D. Transports		
7. Transporter 2 Company Name 8.  DART IDNE TABLE. Co. TWC.	US EPA ID Num		E. Transporte ID Numbe	r's UPW -0	124009 -OH
9. Designated Facility Name and Site Address 10.	US EPA ID Num		F Transporte	r's Phone (%	00)541-8206
SPRING GROVE RESOURCE RECOVERY			G. Facility's II		
4079 SPRING GROVE AVE. CINCINNATI, OH, 45232			ID Number	<del></del>	<del>_                                    </del>
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11. US DOT Description (Including Proper Shipping Name, Hazard	i Ciass, and ID Number)	No.	_{I_}   _To	otal Ur intity Wt/	nit Waste No
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וא	LL DRUMS ARE ON	SG PROFII	E # CH	1442	00
16. GENERATOR'S CERTIFICATION: I hereby declare that the content	ts of this consignment are fully	and accurately	described above	bu	
proper shipping name and are classified, packed, marked, and label according to applicable international and national government regula	led, and are in all respects in p	proper condition	for transport by	highway	
If I am a large quantity generator, I certify that I have a program in be economically practicable and that I have selected the practicable	place to reduce the volume a	and toxicity of wa	aste generated t	o the degree	have determined to
and future threat to human health and the environment; OR, if I am select the best waste management method that is available to me as	a small quantity generator, I h	ave made a goo	od faith effort to	mınimıze my v	vaste generation and
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FRED KRIKAU, AGENT FOR HYGHWAY GROW	P Ised ?	Kuhi	نہ		108/11/919
17. Transporter 1 Acknowledgement of Receipt of Materials		1 0			Date
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18. Transporter 2 Acknowledgement of Receipt of Materials		mo I	XM611	<del></del>	Date
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WILL DO ITH	William S. G	Smith		···	081799
19. Discrepancy Indication Space					
		`,		·	0811797
20. Facility Owner or Operator: Certification of receipt of hazardous	materials covered by this ma	anifest except a	as noted in item	19.	Date
Printed/Typed Name	0'				
This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Ch	Signature	1-14	/ -171.V	7	Month Day Year

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THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also che applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
  - 1 The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended i treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardo Constituents (UHC's) are NOT required to be identified.
  - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater the or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) combustion (CMBST) technology. UHC's are NOT required to be identified.
  - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D0 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 whi is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA syst located in the United States. All UHC's which are reasonably expected to be present must be identified except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBS technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach complet Addendum to this form.
  - 3 The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which intended for export and treatment/disposal at a facility located outside the United States. LDR treatme standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, t identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported however that if the exported waste is subsequently returned for treatment/disposal in the United State all applicable LDR regulations would apply and a revised LDR notification would be required.
  - 4 The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatmen disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR Addendum and attach completed Addendum to this form.
  - 5 The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnanc subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardot waste. UHC's are NOT required to be identified.
  - 6 The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standar under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete ar attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 26 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106 P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LD NOTIFICATION FORM.

# SECTION I. CHARACTERISTIC WASTES DOOL THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST	LINE ITEM WASTE CODE / SUBCATEGORY				COLUMN WASTEWA NON-WASTE			N 4: G CODE			
libed	KY KY	D001	Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)		Non-ww on	Non-WW ly	(17)	3	3	4	6
Mc, 28abc	[ ] [X]	D002	Corrosives	<b>[ ]</b>	mm [×	Non-WW	1 (	3	3	4	6
/	• •	[ ]	Reactive Sulfide, per 261.23(a)(5)	[]		Non-WW	1	3	4	5	6
			Reactive Cyanide, per 261.23(a)(5)	[ ]		Non-WW	1	3	4	5	6
		( )	Explosive, per 261.23(a)(6), (7) & (8)	[ ]	WW []	Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW on.	ly	1	2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	[]	ww []	Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	ΪÌ	WW []	Non-WW	1	3	4	5	6
	1 1	D004	Argenic	ίi	WW []	Non-WW	1	2	ì	4	6
	ri	D005	Barium	ίí	ww []	Non-WW		- 2	3	Ā	6
·	7 1	D006	1		"" ( )	11011 1111	•	•	•	•	٠
	. ,	( )	Cadmium	. 1	( )	Man 1974		_			_
		7 3	· · · · · · · · · · · · · · · · · · ·	[ ]		Non-WW	7	2	3	4	0
		1 1	Cadmium Containing Batteries		Non-WW on.	•	2	3	6		
	( )	D007	Chromium	{ }	ww [ ]	Non-WW	1	2	3	4	6
	[]	D008									
		[ ]	Lead	[ ]	WW [ ]	Non-WW	1	2	3	4	6
		[]	Lead Acid Batteries	[]	Non-WW on	ly -	2	3	6		

# SECTION I. CHARACTERISTIC WASTES DOO1-43 (CONTINUED)

COLUMN 1. LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / NAME		COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
SEE MANIFEST	[] D009 [] [] [] [] [] [] [] [] [] [] D010 [] D011 [] D012 [] D013 [] D016 [] D017 [] D018 [] D019 [] D021 [] D022 [] D023 [] D024 [] D025 [] D026 [] D027 [] D028 [] D029 [] D030 [] D031 [] D031 [] D035 [] D035 [] D035 [] D036 [] D037 [] D038 [] D037 [] D038 [] D038 [] D039 [] D037 [] D038 [] D039 [] D031 [] D035 [] D036 [] D037 [] D038 [] D037 [] D038 [] D039 [] D040 [] D041	Low Mercury, less than 260 High Mercury Organic Subca High Mercury Inorganic Sub Selenium Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D 2,4,5-TP (Silvex) Benzene Carbon tetrachloride Chlordane Chlorobenzene Chloroform o-Cresol m-Cresol p-Cresol 1,4-Dichlorobenzene 1,2-Dichloroethylene 2,4-Dinitrotoluene Heptachlor (and its epoxid Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Tetrachlorophenol Pyridine Tetrachloroethylene Trichloroethylene Trichloroethylene Trichloroethylene	tegory [ ] category [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	WW [] Non-WW Non-WW only Non-WW only WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW WW [] Non-WW	1 2 3 4 2 3 4 1 2 3 4 6 1 2 3 4 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 5 6 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6
SECTION II.	[ ] D042 [ ] D043	2,4,6-Trichlorophenol Vinyl Chloride  WT WASTES FOOL THROUGH FOOS  COLUMN 2:	i i	WW [] NON-WW WW [] NON-WW COLUMN 3:	1 2 3 4 6 1 2 3 4 6
LINE ITEM SEE MANIFEST	[ ] F001	WASTE CODE / CONSTITUEN	TS F004 [ ] F005 [ ]	WASTEWATER/ NON-WASTEWATER WW [] NON-WW	HANDLING CODE
	7. Chloroben 8. o-Cresol 9. m-Cresol distinguis p-cresol) 10. p-Cresol distinguis m-cresol)		12. Cyclohexanone 13. o-Dichlorobenzene 14. 2-Ethoxyethanol (Foonly) 15. Ethyl acetate 16. Ethyl benzene 17. Ethyl ether 18. Isobutyl alcohol 19. Methanol 20. Methylene chloride 21. Methyl ethyl ketone 22. Methyl isobutyl ket 23. Nitrobenzene 24. 2-Nitropropane (FOOnly)	[ ] 26	5. Pyridine 5. Tetrachloroethylene 7. Toluene 8. 1,1,1-Trichloro- ethane 9. 1,1,2-Trichloro- ethane 1. Trichloroethylene 1. 1,2-Trichloro- 1,2,2-trifluoroethan 2. Trichloromonofluoro methane 1. Xylene - mixed isom (sum of o-, m-, and p-xylene)

SECTION III	CALIFORNIA LIST WASTES												
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		N	WAST	EWA	I3: TER/ WATER	2			LUM			:
	Hazardous waste containing one or more of the following California List constituents:	( )	) WI	н	[ ]	Non-	WW	: 2		3 4	l ·	5	6
	[ ] ALL CALIFORNIA LIST CONSTITUENTS [ ] Liquids with nickel greater than or equal to 134 mg, [ ] Liquids with thallium greater than or equal to 130 mg [ ] Liquids with PCB's > or = 50 ppm [ ] Waste containing HOC's > or = 1,000 mg/kg		1										
SECTION IV. 01	THER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-,	<u>, U</u>	<u> i</u>	AND P	<u>- cc</u>	DES)							
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		N	WAST	EWA	:3: TER/ WATER	l.			Lumi			
**************************************		<b>[</b> ]	) W1	i	[]	Non-	WW		3	4	5	6	
		( )	) W1	н	[]	Non-	WW		3	4	5	6	
		( )	) WI	a	[]	Non-	WW		3	4	5	6	
<del></del>		[ ]	) WI	4	[]	Non-	WW	:	3	4	5	6	
•		[ ]	) พา	•	( )	Non-	WW	:	3	4	5	6	
( ) CHECK HERI	: IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE E IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT I AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED		IDE	NTIF	F	039	CONST	NUATIO ITUENT					ETING
SECTION V. CON	Juel Skukon	· . Da	ite:	:		8/11	19	5					

### KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

SECTION		IDDDCCT WING	*** ** ** ***	CONCRETENTE	(IRICIC)
SECTION	1.	UNDERLIING	RAZARDOUS	CONSTITUENTS	TORC 31

- [] Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.
- Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

### SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [ ] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [ ] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

### SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

SECTIO	N IV. LIST OF	CONSTITUENTS - INCLUDE MANIFEST LIN	E ITE	м		
34.	[		72.		[ ]	Chlordane (alpha and gamma
35.	(	Acenaphthene				isomers)
36.		l Acetone	·73.		[ ]	p-Chloroaniline
37.	(	] -Acetonitrile	74.		[ ]	Chlorobenzene
38.		] Acetophenone	75.		[ ]	Chlorobenzilate
39.		] 2-Acetylaminofluorene	76.		[ ]	2-Chloro-1,3-butadiene
40.		] Acrolein	77.		, []	Chlorodibromomethane
41.		] Acrylamide (*)	78.		[ ]	Chloroethane
42		] Acrylonitrile	79.		[ ]	bis(2-Chloroethoxy)methane
251		Aldicarb sulfone (*)	80.		[]	bis(2-Chloroethyl)ether
43		] Aldrin	81.		[]	
44	(		82.		[ ]	- · · · ·
45		] Aniline	83.		[ ]	p-Chloro-m-cresol
46		] Anthracene	84.		[]	
47	[	] Antimony	85.		[]	Chloromethane (Methyl Chloride)
48	{ :	] Aramite	86.		[]	2-Chloronaphthalene
49	[ ]		87.		[ ]	
50	[	•	88.		[ ]	
51			89.		[]	
52			90.		[ ]	•
		-	91.		( )	
252			92.		[ ]	
						distinguish from p-Cresol)
			93.		[ ]	<del>-</del>
	[ ]	•				distinguish from o-Cresol)
			262.	·	[]	•
	[ ]		94.		[ ]	•
			95.		[ ]	Cyanides (Amenable)
58	[]	Benzo(b)fluoranthene (difficult				•
		to distinguish from	96.		[]	
		Benzo(k) fluoranthene)	97.	<del></del>	[]	
59	[]		98.		[ ]	1,2-Dibromoethane (Ethylene dibromide)
	•	to distinguish from	99.		[ ]	
	. ,	Benzo(b) fluoranthene)	100.		[ ]	2,4-Dichlorophenoxyacetic acid (2,4-D)
60	[]		101.		[ ]	o,p'-DDD
61	[ ]	, , , , , , , , , , , , , , , , , , ,	102.		[ ]	p,p'-DDD
		•	103.		( )	o,p'-DDE
			104.		[]	p,p'-DDE
64. <u> </u>		<del>-</del> ,	105.	<del></del>	[]	o,p'-DDT p,p'-DDT
66.	i i		107	<del></del>	[ ]	Dibenz(a,h)anthracene
	<u> </u>	=	108		11	Dibenzo(a, e) pyrene
67.	i i	•	109			m-Dichlorobenzene
68.		· · · · · · · · · · · · · · · · · · ·	110		ii	o-Dichlorobenzene
	• •	(Dinoseb)	111.		ii	p-Dichlorobenzene
69.	[ ]	-	112.		ii	Dichlorodifluoromethane
_	i i		113.		ii	1,1-Dichloroethane
			114.		ii	1,2-Dichloroethane
			115.		ίí	1,1-Dichloroethylene
260.	i i		116.		ίí	trans-1,2-Dichloroethylene
70.	i i	•	117.		ii	2,4-Dichlorophenol
			118.		ii	2,6-Dichlorophenol
	( )		119.		ii	1,2-Dichloropropane
		State 1	120.		ii	cis-1,3-Dichloropropylene
			121.		ij	trans-1,3-Dichloropropylene
						-

Triallate (*)

Tribromomethane (Bromoform)

1 1

289.

235.

•			MENTAL SERVICES, INC.	ADDENDUM M	anıfest No	7L8493092
	236.	r 1	1.2.4-Trichlorobenzene	244.	1.1	1,1,2-Trichloro-1,2,2-trifluoroeth
	237.	- ii	1,1,1-Trichloroethane	290.	ii	Triethylamine (*)
	238.	- ii	1,1,2-Trichloroethane	245.		tris-(2,3-Dibromopropyl)phosphate
	239.		Trichloroethylene	246.	i i	Vanadium (*)
	240.		Trichloromonofluoromethane	291.	[j	Vernolate (*)
	241.	_ ()	2,4,5-Trichlorophenol	247.		Vinyl chloride
	242.	_ []	2,4,6-Trichlorophenol	248		Xylenesmixed isomers (sum of o-,
	243.	_ (1	1,2,3-Trichloropropane			m-, and p-xylene concentrations)
				249.	1.1	Zinc (*)

#### KEY TERMS/DEFINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in \$268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in \$268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in §268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]

CHI Form LDR-1 Addendum, Page 3 of 3

[REVISED 09/10/98]



Completed By _ **CHI 118A** 

#### **PACKING LIST UNKNOWN CHEMICAL**

__ Page _____ of ____

MANIFEST DOC. #__ DRUM ID# NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DRUM SIZE GENERATOR (JOB #) DOT NO /HAZARD CLASS RNIDUS UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: FIGUID SOLID CHEMICALS IN THIS CONTAINER ARE ? SOLUE WHEN WATER IS ADDED TO THE MATERIAL IT IS ? INSOL RCT THE MATERIAL IS AN OXIDIZER? YES NO. YES THE MATERIAL IS A RADIOACTIVE ? THE MATERIAL IS A PYROPHORIC? YES NO. YES NO. THE MATERIAL CONTAINS CYANIDES? THE MATERIAL CONTAINS SULFIDES ? YES 4**4**0 THE MATERIAL CONTAINS PCB'S ? YES MOS) THE MATERIAL HAS A FLASH POINT OF ? <140 E >140 F THE MATERIAL HAS A Ph OF ? Ph<4 10 Ph > 10 DESCRIPTION PH EPA X = (QTY)SIZE S/L NO. AC ンク MUHNULAN 100( 4 4 'o. = Reference Number / EPA = Waste Code / DOT = UN-NA No or Haz. Class / X = Mulitple Containers / Size = Container Size /L = Solid or Liquid / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials. 

## **CleanHarbors**

## PACKING LIST UNKNOWN CHEMICAL

NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655- EPA ID # MAD980523203  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  CONTACT  C	E DOT	NO /HAZARD CL/	cincr CINCY	# 2 E ONE SOL	M ID #
NKNOWN CHEMICALS IN THIS CONTAINER HAVE THE DLLOWING CHEMICAL CHARACTERISTICS: HEMICALS IN THIS CONTAINER ARE ? HEN WATER IS ADDED TO THE MATERIAL IT IS ? HE MATERIAL IS AN OXIDIZER ? HE MATERIAL IS A RADIOACTIVE ? HE MATERIAL IS A PYROPHORIC ? HE MATERIAL CONTAINS CYANIDES ? HE MATERIAL CONTAINS SULFIDES ? HE MATERIAL CONTAINS PCB'S ?		3	CIRCL SQLID IN YES YES	E ONE	RCT
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NKNOWN CHEMICALS IN THIS CONTAINER HAVE THE DLLOWING CHEMICAL CHARACTERISTICS: HEMICALS IN THIS CONTAINER ARE ? HEN WATER IS ADDED TO THE MATERIAL IT IS ? HE MATERIAL IS AN OXIDIZER ? HE MATERIAL IS A RADIOACTIVE ? HE MATERIAL IS A PYROPHORIC ? HE MATERIAL CONTAINS CYANIDES ? HE MATERIAL CONTAINS SULFIDES ? HE MATERIAL CONTAINS PCB'S ?		3	CIRCL SQLID IN YES YES	E ONE	RCT
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HEMICALS IN THIS CONTAINER ARE ? HEN WATER IS ADDED TO THE MATERIAL IT IS ? HE MATERIAL IS AN OXIDIZER ? HE MATERIAL IS A RADIOACTIVE ? HE MATERIAL IS A PYROPHORIC ? HE MATERIAL CONTAINS CYANIDES ? HE MATERIAL CONTAINS SULFIDES ? HE MATERIAL CONTAINS PCB'S ?			YES YES YES	SOL	RCT
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IE MATERIAL IS A RADIOACTIVE ? IE MATERIAL IS A PYROPHORIC ? IE MATERIAL CONTAINS CYANIDES ? IE MATERIAL CONTAINS SULFIDES ? IE MATERIAL CONTAINS PCB'S ?			YES YES		MO1
IE MATERIAL IS A PYROPHORIC ? IE MATERIAL CONTAINS CYANIDES ? IE MATERIAL CONTAINS SULFIDES ? IE MATERIAL CONTAINS PCB'S ?			YES	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
E MATERIAL CONTAINS CYANIDES ? IE MATERIAL CONTAINS SULFIDES ? IE MATERIAL CONTAINS PCB'S ?				,	MG)
E MATERIAL CONTAINS PCB'S ?			150		MB
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E WATERIAL RAS A FLASH PUINT UP ?		+	-YES	-	Ne2)
E MATERIAL HAS A Ph OF ?	<del></del>	Ph<	(140 E) 4 Ph.4		140 F Ph > 10
DESCRIPTION	PH	EPA	X = (QTY)	SIZE	S/L
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THIS IS TO CERTIFY that the above listing is an accurate description no pressurized, pyrophoric, pathologic, radioactive, explosive or shock	or the co sensitive	ntent of this materials	orum and that	it contains	

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## **CleanHarbors**°

## PACKING LIST UNKNOWN CHEMICAL

		MA	NIFEST DO	OC. #		
NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8 EPA ID # MAD980523203	3863		GRP	DRUM 井マ	1 ID #	
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		_				
		_				
GENERATOR (JOB #)  CONTACT  DOWN SIZE  STORY  DRUM SIZE	5 001 8	O /HAZARÓ CLASS	Spp11	T		
UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE FOLLOWING CHEMICAL CHARACTERISTICS:			CIRCLE	ONE _	_	
CHEMICALS IN THIS CONTAINER ARE ?		SQI	.ID	, CK		
WHEN WATER IS ADDED TO THE MATERIAL IT IS ?		SOLU	INS	SOL (	RC	T
THE MATERIAL IS AN OXIDIZER ?		YE	S	5	NQ,	
THE MATERIAL IS A RADIOACTIVE ?		YE	S		M6)	
THE MATERIAL IS A PYROPHORIC ?		YE			Md)	
THE MATERIAL CONTAINS CYANIDES ?		YE			46	
THE MATERIAL CONTAINS SULFIDES ?		YE			770) 746)	
THE MATERIAL CONTAINS PCB'S ?	<del></del>	YE				
THE MATERIAL HAS A FLASH POINT OF ? THE MATERIAL HAS A Ph OF ?		Ph<4	Ph_4		140 F Ph>	10
NO DESCRIPTION	PH		( = (QTY)	SIZE	S/L	AC
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'p. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size / L = Solid or Liquid / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

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#### **PACKING LIST** UNKNOWN CHEMICAL

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MANIFEST DOC. # ___ DRUM ID # **GRP** NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DOT NO /HAZARD CLASS DRUM SIZE GENERATOR (JOB #) 5 DS KN1293 UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: FIOUR CHEMICALS IN THIS CONTAINER ARE ? SOLID SOLUY WHEN WATER IS ADDED TO THE MATERIAL IT IS ? INSOL THE MATERIAL IS AN OXIDIZER ? YES THE MATERIAL IS A RADIOACTIVE ? YES THE MATERIAL IS A PYROPHORIC ? YES THE MATERIAL CONTAINS CYANIDES ? YES THE MATERIAL CONTAINS SULFIDES ? YES THE MATERIAL CONTAINS PCB'S ? NO) YES THE MATERIAL HAS A FLASH POINT OF ? <140_E) >140 F Ph-4 THE MATERIAL HAS A Ph OF ? Ph<4 Ph > 10 DESCRIPTION X = (QTY)NO PH **EPA** SIZE S/L AC 190 レクトコワフ = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size √L = Solid or Liquid / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials. Completed By _



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#### **PACKING LIST UNKNOWN CHEMICAL**

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MANIFEST DOC. # __ DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DRUM SIZE DOT NO /HAZARD CLASS GENERATOR (JOB #) I EPPINII UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: CHOURE CHEMICALS IN THIS CONTAINER ARE ? SQLID SOLU WHEN WATER IS ADDED TO THE MATERIAL IT IS? INSOL **RCT** THE MATERIAL IS AN OXIDIZER? YES THE MATERIAL IS A RADIOACTIVE ? YES ÓИ THE MATERIAL IS A PYROPHORIC? YES THE MATERIAL CONTAINS CYANIDES ? YES NO, THE MATERIAL CONTAINS SULFIDES ? NO YES  $\alpha_{OM}$ THE MATERIAL CONTAINS PCB'S ? YES 140 F THE MATERIAL HAS A FLASH POINT OF? >140 F CPh_4 Ph > 10 THE MATERIAL HAS A Ph OF ? Ph<4 100 NO. DESCRIPTION PH **EPA** SIZE S/L X = (QTY)AC v words. 100( = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.



### PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. #__ GRP DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DOT NO /HAZARD CLASS DRUM SIZE GENERATOR (JOB #) 2 D2 3 (VN/dd) UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE **FOLLOWING CHEMICAL CHARACTERISTICS:** HOUND CHEMICALS IN THIS CONTAINER ARE ? SOLID SOLUTION WHEN WATER IS ADDED TO THE MATERIAL IT IS? INSOL **RCT** THE MATERIAL IS AN OXIDIZER ? YES ИО) AD) THE MATERIAL IS A RADIOACTIVE? YES THE MATERIAL IS A PYROPHORIC? YES (DOM) (Q)(A) THE MATERIAL CONTAINS CYANIDES? YES THE MATERIAL CONTAINS SULFIDES? ZMG) YES MΘΣ THE MATERIAL CONTAINS PCB'S ? YES THE MATERIAL HAS A FLASH POINT OF ? <140-F >140 F Ph.4 THE MATERIAL HAS A Ph OF ? Ph<4 10) Ph > 10 NO DESCRIPTION PН EPA X = (QTY)SIZE S/L AC 1 myroun1 loca 6

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

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CHI 118A

## PACKING LIST UNKNOWN CHEMICAL

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	·	-	1		
GENERATOR (JOB #) CONTACT \(\rangle\) \(\rangle\) \(\rangle\) \(\rangle\) \(\rangle\) \(\rangle\)		O /HAZARD CLASS			
David Pules	F	3 (VN	1002	$\mathcal{I}_{-}$	
UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE					
FOLLOWING CHEMICAL CHARACTERISTICS:			CIRC	LE ONE	
CHEMICALS IN THIS CONTAINER ARE ?		SOL	ID	l	LIQUID
WHEN WATER IS ADDED TO THE MATERIAL IT IS ?		SOLU	IN.	ISOL	RCT
THE MATERIAL IS AN OXIDIZER ?		YES	S		NO
THE MATERIAL IS A RADIOACTIVE ?		YES			NO
THE MATERIAL IS A PYROPHORIC ?	<del></del>	YES			NO
THE MATERIAL CONTAINS CYANIDES ?		YES		<del></del>	NO
THE MATERIAL CONTAINS SULFIDES ?		YES		<del></del>	NO
THE MATERIAL CONTAINS PCB'S ? THE MATERIAL HAS A FLASH POINT OF ?		< 140		+	NO > 140 F
THE MATERIAL HAS A PLASH POINT OF ?		Ph<4		1 — 10	Ph>10
NO. DESCRIPTION	PH	<del></del>	= (QTY)	SIZE	S/L AC
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1) Millions	-   - !	<del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         </del>	<del>_ ' \1</del> .	+	<del></del>
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THIS IS TO CERTIFY that the above listing is an accurate description			m and that	it contains	3
no pressurized, pyrophoric, pathologic, radioactive, explosive or sho	ck sensitive r	naterials.			
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#### PACKING LIST UNKNOWN CHEMICAL

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MANIFEST DOC. #__ **GRP** DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DOT NO /HAZARD CLASS GENERATOR (JOB #) I reply Scary. UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: CHUCI CHEMICALS IN THIS CONTAINER ARE ? SOLID WHEN WATER IS ADDED TO THE MATERIAL IT IS ? SOLU INSOL **RCT** YES MQ) THE MATERIAL IS AN OXIDIZER? YES THE MATERIAL IS A RADIOACTIVE ? <del>И</del>Ө THE MATERIAL IS A PYROPHORIC? YES NO)  $MO_{j}$ THE MATERIAL CONTAINS CYANIDES ? YES MO THE MATERIAL CONTAINS SULFIDES ? YES MO) THE MATERIAL CONTAINS PCB'S ? YES THE MATERIAL HAS A FLASH POINT OF? <140-P >140 F Ph.4 THE MATERIAL HAS A Ph OF ? Ph<4 10> Ph > 10 NO DESCRIPTION РН EPA X = (QTY)SIZE S/L AC |メダメ/ NNhrown 1)001 <u>6</u> = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Multiple Containers / Size = Container Size / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code = Solid or Liquid THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.



## PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. # ___ DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 GENERATOR (JOB #) DOT NO /HAZARD CLASS IPPI NA UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: CHEMICALS IN THIS CONTAINER ARE? **SOLID** LIQUID WHEN WATER IS ADDED TO THE MATERIAL IT IS ? SOLU INSOL RCT THE MATERIAL IS AN OXIDIZER? YES NO THE MATERIAL IS A RADIOACTIVE ? YES NO THE MATERIAL IS A PYROPHORIC ? YES NO THE MATERIAL CONTAINS CYANIDES? YES NO THE MATERIAL CONTAINS SULFIDES ? YES NO THE MATERIAL CONTAINS PCB'S ? YES NO < 140 F THE MATERIAL HAS A FLASH POINT OF ? >140 F THE MATERIAL HAS A Ph OF ? Ph > 10 Ph<4 Ph 4 — 10 DESCRIPTION PH EPA X = (QTY)SIZE S/L AC NNIHNOWN  $/\kappa \kappa^{\chi}$ DOO 411 -۲. 037

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'_ = Solid or Liquid /	GRP = Compatibility Group Code		Drum Identification Number	1	AC = Acceptance Code

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### PACKING LIST UNKNOWN CHEMICAL

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MANIFEST DOC. #__ DRUM ID # (508) 655-8863 NATICK 10 MERCER ROAD, NATICK, MA 01760 EPA ID # MAD980523203 (NN/1993 GENERATOR (JOB #) S D DONG F UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: **FIGUID** CHEMICALS IN THIS CONTAINER ARE ? -SQLID SOLU WHEN WATER IS ADDED TO THE MATERIAL IT IS? INSOL **RCT** THE MATERIAL IS AN OXIDIZER? YES THE MATERIAL IS A RADIOACTIVE? YES THE MATERIAL IS A PYROPHORIC? YES THE MATERIAL CONTAINS CYANIDES ? YES THE MATERIAL CONTAINS SULFIDES ? YES THE MATERIAL CONTAINS PCB'S? YĘS 140)F >140 F THE MATERIAL HAS A FLASH POINT OF ? Gh.4. Ph > 10 THE MATERIAL HAS A Ph OF ? Ph < 4DESCRIPTION PH **EPA** X = (QTY)SIZE S/L AC Mycardal DOD No. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.



NATICK 10 MERCER ROAD, NATICK, MA 01760

## PACKING LIST UNKNOWN CHEMICAL

DRUM ID #

MANIFEST DOC. #_

EPA ID # MAD980523203 DOT NO HAZARD CLASS DRUM SIZE GENERATOR (JOB #) IE EPPINIU UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: PIONIQ) CHEMICALS IN THIS CONTAINER ARE ? SQLID WHEN WATER IS ADDED TO THE MATERIAL IT IS? SOLIV INSOL **RCT** THE MATERIAL IS AN OXIDIZER? YES MQ) THE MATERIAL IS A RADIOACTIVE ? NO YES THE MATERIAL IS A PYROPHORIC? YES QИ. THE MATERIAL CONTAINS CYANIDES? YES YES THE MATERIAL CONTAINS SULFIDES? -NO THE MATERIAL CONTAINS PCB'S ? YES THE MATERIAL HAS A FLASH POINT OF ? <140-P >140 F THE MATERIAL HAS A Ph OF ? Ph<4 10 Ph > 10 DESCRIPTION PH EPA X = (QTY)NO SIZE S/L AC  $\bar{e}_{\sigma}$ INNHOWN Dool ٠ ۾. p. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials. Page ____ __ of _ CHI 118A

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### PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. # DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 GENERATOR (JOB #) DRUM SIZE DOT NO HAZARD CLASS EPPINNI 51K UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: CHOULD CHEMICALS IN THIS CONTAINER ARE? SOLID خواجا WHEN WATER IS ADDED TO THE MATERIAL IT IS ? INSOL **RCT** YES МO THE MATERIAL IS AN OXIDIZER .? THE MATERIAL IS A RADIOACTIVE? YES (OMS) THE MATERIAL IS A PYROPHORIC? YES Na THE MATERIAL CONTAINS CYANIDES ? (QV YES THE MATERIAL CONTAINS SULFIDES ? YES (QUZ) THE MATERIAL CONTAINS PCB'S ? MO) YES THE MATERIAL HAS A FLASH POINT OF ? <-140.₽ >140 F THE MATERIAL HAS A Ph OF ? Ph > 10 Ph<4 Ph-4 NO. DESCRIPTION PH EPA X = (QTY)SIZE S/L 78 NUNNOVA Д

الم	~\o. = Reference Number	/ EPA	= Waste Code / DOT = l	N-NL	A No. or Haz. Class $/ X = I$	Mulit	ple Containers / Size	e = Container Size
(	L = Solid or Liquid /	GRP	= Compatibility Group Code		Drum Identification Number	1	AC = Acceptance C	ode

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

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CHI 118A

## PACKING LIST UNKNOWN CHEMICAL

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DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 GENERATOR (JOB #) DOT NO /HAZARD CLAS IL PETENN 201 Owol UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: FIOHID) CHEMICALS IN THIS CONTAINER ARE? SQLID SOLU WHEN WATER IS ADDED TO THE MATERIAL IT IS ? INSOL YES THE MATERIAL IS AN OXIDIZER ? THE MATERIAL IS A RADIOACTIVE ? YES NQ 44C THE MATERIAL IS A PYROPHORIC? YES THE MATERIAL CONTAINS CYANIDES? YES MO THE MATERIAL CONTAINS SULFIDES ? YES THE MATERIAL CONTAINS PCB'S ? YES NO THE MATERIAL HAS A FLASH POINT OF ? <140 F >140<u>-</u>E) THE MATERIAL HAS A Ph OF ? Ph<4 Ph_4 10) Ph > 10 DESCRIPTION PH **EPA** X = (QTY)SIZE S/L NO AC  $\sqrt{x}$ DOO(1)アルトルタヘハ = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Multiple Containers / Size = Container Size = Solid or Liquid / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.



#### **PACKING LIST UNKNOWN CHEMICAL**

MANIFEST DOC. # ____ DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DOT NOVHAZARD CLASS GENERATOR (JOB #) 3701 II  $\mathcal{N}\mathcal{N}$ UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS FIOUR CHEMICALS IN THIS CONTAINER ARE? SQLID SOLU WHEN WATER IS ADDED TO THE MATERIAL IT IS? INSOL RCT THE MATERIAL IS AN OXIDIZER? YES NO THE MATERIAL IS A RADIOACTIVE ? YES ALO THE MATERIAL IS A PYROPHORIC ? YES NO THE MATERIAL CONTAINS CYANIDES? YES QU. YES THE MATERIAL CONTAINS SULFIDES? 4NO-THE MATERIAL CONTAINS PCB'S ? YES THE MATERIAL HAS A FLASH POINT OF ? <140 F 140-F THE MATERIAL HAS A Ph OF ? Ph<4 Ph 4 -10 Pho DESCRIPTION PH EPA SIZE AC NO X = (QTY)S/L Myrom ひら 1)00 ١x١ 19-5- 50

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

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= Solid or Liquid / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code

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= Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size



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CHI 118A

## PACKING LIST UNKNOWN CHEMICAL

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MANIFEST DOC. # DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DOT NO /HAZARD CLASS GENERATOR (JOB #) DRUM SIZE 3265 I Dong D 2*D*2 UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: FIORID CHEMICALS IN THIS CONTAINER ARE ? SOLID WHEN WATER IS ADDED TO THE MATERIAL IT IS? SOLU) INSOL **RCT** THE MATERIAL IS AN OXIDIZER ? YES THE MATERIAL IS A RADIOACTIVE? YES (OM) THE MATERIAL IS A PYROPHORIC ? YES THE MATERIAL CONTAINS CYANIDES ? YES THE MATERIAL CONTAINS SULFIDES ? YES YES THE MATERIAL CONTAINS PCB'S ? QU. 740-7 THE MATERIAL HAS A FLASH POINT OF? ≈140 F Ph<4 THE MATERIAL HAS A Ph OF ? Ph 4 --Ph > 10 10 DESCRIPTION EPA X = (QTY)NO. PH SIZE S/L AC MULHOUN 100Cl a þ to. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size = Solid or Liquid / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.



CHI 118A

## PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. #_____

NATICK 10 MERCER ROAD, NATICK, MA 01760 EPA ID # MAD980523203	(508) 655-8863	(	GRP	# 16		
		_				
	,					
GENERATOR (JOB #) CONTACT DO 1/3 Pulls	DRUM SIZE DOT	NO /HAZARD CLASS	098	#		
UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE FOLLOWING CHEMICAL CHARACTERISTICS.			CIRCLE			
CHEMICALS IN THIS CONTAINER ARE ?		SOLID	1210	·	IOUIBO	
WHEN WATER IS ADDED TO THE MATERIAL IT IS? THE MATERIAL IS AN OXIDIZER?		SOLVYES	INS	SOL	NQ NQ	<u> </u>
THE MATERIAL IS A RADIOACTIVE ?		YES		-	MG)	
THE MATERIAL IS A PYROPHORIC ? THE MATERIAL CONTAINS CYANIDES ?		YES YES		<del>                                     </del>	446 ₄	
THE MATERIAL CONTAINS SULFIDES ?		YES			SON SON	
THE MATERIAL CONTAINS PCB'S ?		YES		+	NO	
THE MATERIAL HAS A PLOS 2		Ph < 4	Ph 4	·	140 F	10
THE MATERIAL HAS A Ph OF ?  NO. DESCRIPTION	PH		(QTY)	SIZE	Ph>	AC
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No. = Reference Number / EPA = Waste Code / DOT = UN-No. = Solid or Liquid / GRP = Compatibility Group Code /					ntainer	Sıze
THIS IS TO CERTIFY that the above listing is an accurate no pressurized, pyrophoric, pathologic, radioactive, explosit			and that	it contains		
Completed By Date	8/11/97		Pade		-i	



CHI 118A

## PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. #

		( 10 MERCER # MAD9805232	ROAD, NATICK, M 03	A 01760 (	508) 655-8	863			GRP 🚱	サリ サリ	JM ID #	
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							_				<del> </del>	
GENER	RATOR (JOB #	<del>(</del> )	CONTACT PULL		DRUM SIZE	DOT N	O /HAZARD CL	UN	325	#		
		CHEMICALS IN TH	IIS CONTAINER HAV	'E THE		L			CIRCLE	ONE		
CHE	MICALS	IN THIS CONTAIN	NER ARE ?					SQLIB			LIQUID	
			THE MATERIAL IT IS	?			SOI		INS	101 <u>/</u>	RC	<u>, T</u>
		AL IS AN OXIDIZE AL IS A RADIOAC			<del></del>		<del> </del>	YES YES		<u> </u>	MO	
		AL IS A PYROPH					<del>                                     </del>	YES			Cuo Cuo	
		AL CONTAINS CY						YES			ANO.	
		AL CONTAINS SL			<del></del>		ļ	YES			MQ.	
		AL CONTAINS PO AL HAS A FLASH					<del> </del>	YES < 140 F		$\leftarrow$	>140 F	<del>)</del> —
		AL HAS A Ph OF			<del></del>		Ph<		Ph.4	10	Ph>	- 10
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			= vvaste Code / Di = Compatibility Group								Joinainer	<b>3128</b>
_	THIS IS	TO CERTIFY that	the above listing is a	in accurate de	scription of	the con	tent of this				s	
	no press	urized, pyrophoric	, pathologic, radioact	ive, explosive	or shock se	ensitive r	naterials.					
		Daville			8/11/8							



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CHI 118A

#### PACKING LIST UNKNOWN CHEMICAL

Page ___

MANIFEST DOC. #_ DRUM ID # **GRP** NATICK 10 MERCER ROAD, NATICK, MA 01760 (508) 655-8863 EPA ID # MAD980523203 DRUM SIZE DOT NO /HAZARD CLASS GENERATOR (JOB #) CONTACT M1322 # UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE **FOLLOWING CHEMICAL CHARACTERISTICS:** SOLID CHEMICALS IN THIS CONTAINER ARE ? LIQUID SOLUE WHEN WATER IS ADDED TO THE MATERIAL IT IS ? **YOSUP RCT** THE MATERIAL IS AN OXIDIZER? YES THE MATERIAL IS A RADIOACTIVE ? YES NO. THE MATERIAL IS A PYROPHORIC ? YES THE MATERIAL CONTAINS CYANIDES? YES THE MATERIAL CONTAINS SULFIDES? YES YES THE MATERIAL CONTAINS PCB'S ? THE MATERIAL HAS A FLASH POINT OF? <140 F 140 B Ph 4 THE MATERIAL HAS A Ph OF ? Ph < 4(س10 Ph > 10 \ DESCRIPTION PH **EPA** X = (QTY)SIZE NO. S/L AC MANDWN S 110 Dool # 14 本 # No. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Mulitple Containers / Size = Container Size / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials,



CHI 118A

## PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. #_____

NATICK 10 M EPA ID # MAD	MERCER ROAD, NATICK, MA 01760 980523203	(508) 655-88	63			GRP	# 19	JM ID #	! 
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				_					
GENERATOR (JOB #)	Barry Pylls	ORUM SIZE	DOT N	O /HAZARD CLA	MN I	572	1		
	ALS IN THIS CONTAINER HAVE THE CAL CHARACTERISTICS:					CIRCLE	ONE		
CHEMICALS IN THIS					SOLID			LIQUID	
	DED TO THE MATERIAL IT IS ?			SOL		INS	eD_	RC	<u> </u>
THE MATERIAL IS AN	······································				YES YES		-	(NO) (NO)	
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THE MATERIAL CON				ļ	YES			YUQY .	
THE MATERIAL CONT	<del></del>	···			YES			-MOR	<del></del>
THE MATERIAL HAS	A FLASH POINT OF ? A Ph OF ?			Ph<	< 140 F	Ph.4-		<u>-140-</u> F) Ph >	
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	ber / EPA = Waste Code / DOT = UN-NA / GRP = Compatibility Group Code /							Container	Size
THIS IS TO CER no pressurized, p	TIFY that the above listing is an accurate d pyrophoric, pathologic, radioactive, explosive	escription of te or shock ser	he con	tent of this naterials.	drum a	ind that it	contain	s	
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**CHI 118A** 

## PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. #_____

	NATICK EPA ID #	(508) 655-	8863		G	RP	DRU # 20	M ID #				
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GENE	RATOR (JOB #)		CONTACT D	2 \ 2 C	DRUM SIZE	DOT NO	o /HAZARD GL/	ASS 1 >	\C -			
	NOWN CHE	EMICALS IN THI	S CONTAINER	<del></del>	3 13	7 1	3/ /	14/1/2				
FOL	LOWING CH	IEMICAL CHAR	ACTERISTICS:					$\overline{}$	CIRCLE			
		THIS CONTAINI IS ADDED TO T		IT IC 2		· · · · · · · · · · · · · · · · · · ·	SOL	SOLID	GNE		.IQUID RC	т
		IS AN OXIDIZE		11 15 ?	<del></del>		304	YES	INC	1		<u> </u>
	<del></del>	IS A RADIOACT					-	YES			(JQ)	
		IS A PYROPHO						YES			MOY	
		CONTAINS CYA						YES		(	MO),	
		CONTAINS SUL						YES			MO,	
		CONTAINS PCE HAS A FLASH I						YES < 140 F		-	140 E	
		HAS A Ph OF ?					Ph<		Ph-4		Ph>	10
NO	DESCRIPT					РН	EPA	X = (	QTY)	SIZE	S/L	AC
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### **PACKING LIST**

Clean	Hart	ors
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l icalinal nol 2	MAINE		PCN			
	17 Main Street So. Portland, ME 04106		APPL #			
	EPA ID #MED 980672182 (207) 799-8111		MANIFEST D	OC.#		
NATICK 10 Mercer Road			GRP	DRU	M ID#	<i>‡</i>
Natick, MA 01760 EPA ID #MAD 980523203 (508) 655-8863				#21	\	
• •		a) >6/10>	3)4.		.)	
CENEDATOR	DRUM SIZE	Corrosim L	144)			
CONTACT DONALD PYLLS	DOT NO WAZARD CLASS S	1410 5				
	DOT NO./HAZARD CLASS			Louze	- C#	1 40
NO. CHEMICAL NAME (No trade names)	H / / / / / /	DOO2	X = (QTY.)	SIZE	S/L	AC
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No. = Reference Number / EPA = Waste Co = Solid or Liquid / GRP = Compatibility					ntainer	Size

Completed By _______ Of ______ of ______ of _____

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

PACKING LIST



NATICK
10 Mercer Road
Natick, MA 01760
EPA ID #MAD 98052320
(508) 655-8863

GENERATOR _

MAINE	PCN						
17 Main Street So. Portland, ME 04106	MANIFEST DOC.#						
EPA ID #MED 980672182 (207) 799-8111							
		ORUM ID #					
	#	β					
_ DRUM SIZE 30 DF							
St. 100 NINK							

CONT	TACT Down Pyles DOT	NO./HAZARD CLASS	NHUR	L			_
NO.	CHEMICAL NAME (No trade names)		EPA	X = (QTY.)	SIZE	S/L	A
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No. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Multiple Containers / Size = Container Size
". = Solid or Liquid / GRP = Compatibility Group Code / Drum = Drum Identification Number / AC = Acceptance Code

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.



Was → Tracking Report

February 2 J00

Page 19

Clean Harbors - Cincinnati, OH 4879 Spring Grove Avenue Cincinnati, OH 45232 OHD000816629

Certificate of Treatment/Disposal - Storage and Transfer

IL8493092 INA1359221 INA1339655

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Signed:	Jain Mitchell
•	Sales Support mar

Date: 2/23/00

STATE OF ILLINOIS

P.O. BOX 19276

(217) 782-6761 SPRINGFIELD, ILLINOIS 62794-9276

62 8/81 State Form

1. Generator's US EPA ID No.

UNIFORM HAZARDOUS

TYPE

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

S. Generator's IL SIGIOIL 999 A Illinois Manifest Document Number Citrensporter SPCU 08/10/7 7000 HADISTICAL. CONTRIBUTE AND PHILASSISTANCE NUMBERS (SOD) GARY; IN 46 4C 114 PLAZA DICEVE SVITE 106 GARY; IN 46 4C 224 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS (SOD) 645 8965 6. US EPA ID Number 0888999

393 2225 US EPA ID Number

SERVICES, INC. MADO

CLEAN HARBARY ENV.

H. Facility's Phone (800) & 12. Containers 0 3 US EPA ID Number 0HD 000 & 166 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) RED VERY 45232 9. Designated Facility Name and Site Address
SPAING GRONF RESENCE
H899 SPAING GROVE FVE THCINNATA, OH Transporter 2 Company Name

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00 S S S SECTION RAD SERVED

In case of a spill call the Illinois Office of Emergency Response at 217/782-7860 and the National Response Center at 800/424-8802 or 202/426-2675.

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and Additional Information

DRJM5>CHI44 200 (SPI

1268162

declare that the contents of this consignment are fully and accurately described above by cked, marked, and labeled, and are in all respects in proper condition for transport by highway tional covernment regulations. proper shipping name and are classified, packed, marker according to applicable international and national govern

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be economically practicable and that I have selected the program in place to reduce the volume and toxicity of waste generated to the degree I have determined to and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

A5 6 Signature

Acknowledgement of Receipt of Materials

Printed/Typed Name

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Signature

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Transporter 2 Acknowledgement of Receipt of Materials जरा<u>ठ</u>्य Printed/Typed Name ennifec (

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6

Discrepancy Indication Space

or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item Signature 20. Facility Owner

COPY 1. TSD MAIL TO GENERATOR

:	Ple	ase pri	int or type. (Form designed for	use on elite (12-pitch) typewrite	r.)				Form Approved Oil	MB No. 20	050-0039	
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Style CF 18 Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808

PRINTED ON RECYCLED PAPER PRINTED WITH USING SOTREAM NO.



PACKING LIST INKNOWN CHEMICAL タタン1 60 名 T DOC.

		DOAD MATIOK	44 04700 (500)	CEE OOCO	GRP	DRUM ID #
- 16	NATICK 10 MERCER EPA ID # MAD9805232	ROAD, NATICK, I	MA 01/60.5-(306)	000-0003		
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ONTACT ONTACT
UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE FOLLOWING CHEMICAL CHARACTERISTICS: CHEMICAL'S IN THIS CONTAINER ARE? CHEMICAL'S IN THIS CONTAINER ARE? CHEMICAL'S IN THIS CONTAINER ARE? CHEMICAL'S IN THIS CONTAINER ARE? SOLID CHOUID WHEN WATER IS ADDED TO THE MATERIAL IT IS? THE MATERIAL' IS AN OXIDIZER? THE MATERIAL' IS A RADIOACTIVE? THE MATERIAL' IS A PYROPHORIC? THE MATERIAL CONTAINS CYANIDES? THE MATERIAL CONTAINS SULFIDES? THE MATERIAL CONTAINS PCB'S? THE MATERIAL CONTAINS PCB'S? THE MATERIAL HAS A FLASH POINT OF? THE MATERIAL HAS A Ph OF? Ph < 4 Ph 4 — 10 Ph > 10 NO Ph > 10 Ph Ph Ph Ph Ph Ph Ph Ph Ph Ph Ph Ph
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Symptotic Land Land State Control Land Contr

Reference Number: // EPA = Waste Code; L DOT = UN NA No. or Haz: Class // X = Mulitple Containers / Size = C Solid or Liquid : Lat GRP = Compatibility Group Code: 1/2 Drum Identification Number: // AC = Acceptance Code

HIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains o pressurized pyrophoric, pathologic radioactive explosive or shock sensitive materials.

CleanHarbors

,	PACKING LIST	, -
	YKNOWN CHEMICAI	L
IL8:	521608	

5 BROWN LEQUED	DOT.10	SOLU	CIRCL OLID VES YES YES YES YES YES (ES	DRUM CC/2, -	3)	
GE RATOR (JOB #) GE RATOR (JOB #) CONTACT CONTACT CONTACT CONTACT DRUM SIZE CONTACT UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE FOLLOWING CHEMICAL CHARACTERISTICS: CHEMICALS IN THIS CONTAINER ARE? WHEN WATER IS ADDED TO THE MATERIAL IT IS? THE MATERIAL IS AN OXIDIZER? THE MATERIAL IS A RADIOACTIVE? THE MATERIAL IS A PYROPHORIC? THE MATERIAL CONTAINS CYANIDES? THE MATERIAL CONTAINS SULFIDES? THE MATERIAL CONTAINS PCB'S? THE MATERIAL HAS A FLASH POINT OF? THE MATERIAL HAS A Ph OF? NO. DESCRIPTION CONTACT DRUM SIZE 5 D F DRUM	PH 77	SOLU SOLU Y Y Ph<4 EPA	CIRCL OLID I IN: YES YES YES YES YES YES YES YES YES YES	E ONE (LI)	QUID RC NO NO NO NO NO NO NO NO NO NO NO NO NO	
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H CLEAR LIQUID 5. BROWN LIQUID	7	EPA				40
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6/1/63						-
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# chie						
No. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Cla						



PACKING LIST UNKNOWN CHEMICAL TL8521608

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MATICK TO MEDCED DOAD MATICK MA 01760 /	E08) 655 (2062			GRP	DRU	<u>M ID #</u>	
NATICK: 10 MERCER ROAD, NATICK, MA 01760 (5 EPA ID # MAD980523203	506) 655-6	0003		ſ	1111		3)	
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			-	-				<u> </u>
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GE -RATOR (JOB #) CONTACT	DRUM SIZE		O./HAZARD CL					
C7 189 211 UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE	1341	- 1ω	6 C7) N (3	<u> </u>		
FOLLOWING CHEMICAL CHARACTERISTICS:			ļ	~	CIRC	LE ONE		-
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THE MATERIAL IS AN OXIDIZER ?			(00)	YES			NO)	•
THE MATERIAL IS A RADIOACTIVE ?				YES		5	(QM	
THE MATERIAL IS A PYROPHORIC ?				YES			110)	
TI E MATERIAL CONTAINS CYANIDES ?				YES			MG)	
THE MATERIAL CONTAINS SULFIDES ? THE MATERIAL CONTAINS PCB'S ?				YES YES			NO)	
THE MATERIAL HAS A FLASH POINT OF ?				<140 F			140 P	·
THE MATERIAL HAS A Ph OF ?	-		Ph<		Ph 4	1 — 10	Ph>	10
NO. DESCRIPTION		PH	ÉPA	X =	(QTY)	SIZE	S/L	AC
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YELLOW SEMI SOLID (RESI	(; K	~7	DO01]		1/2 ×	5	
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No. = Reference Number / EPA = Waste Code / DOT = UN-NA N	lo. or Haz.	Class /	X = Mulitp	le Conta	iners /	Size = Co	ntainer (Size
= Solid or Liquid / GRP = Compatibility Group Code / Dr	um Identific	ation Nu	mber /	AC = A	ccepta	nce Code		
THIS IS TO CERTIFY that the above listing is an accurate des				drum a	nd that	it contains		
no pressurized, pyrophoric, pathologic, radioactive, explosive of	or shock se	ensitive m	naterials.					~
RC (1)	2/2	3/0	٠,			1	1	-
ompleted By KC JW Date	1 ~	3/ (o O	·	Page .	1	əf te	- -

PACKING LIST



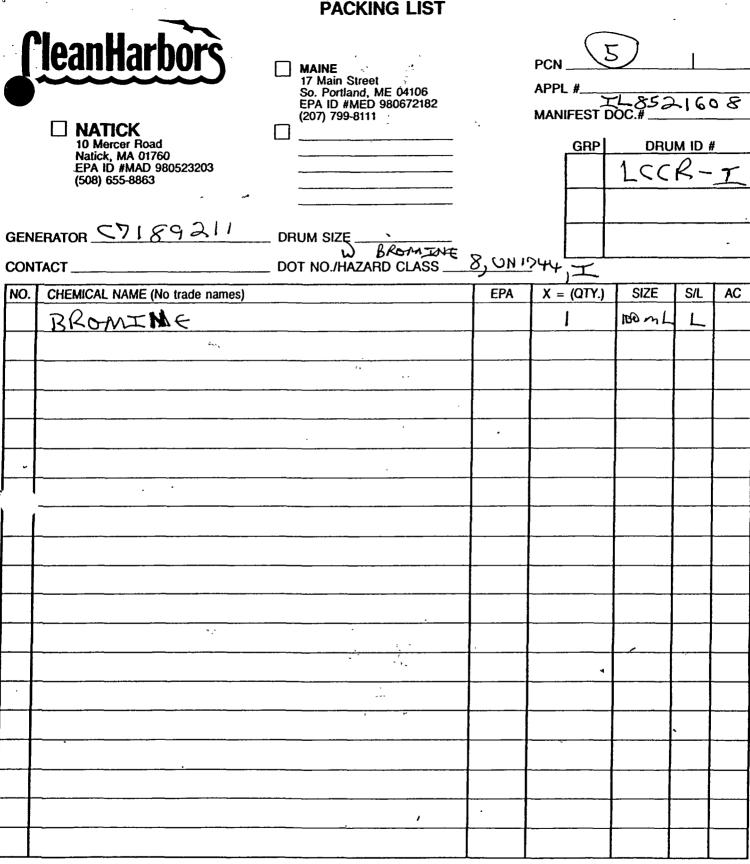
GEN	NATICK 10 Mercer Road Natick, MA 01760 EPA ID #MAD 980523203 (508) 655-8863 ERATOR 1892//	MAINE 17 Main Street So. Portland, ME 04106 EPA ID #MED 980672182 (207) 799-8111		APPL # MANIFEST I	-8521 00C.#	IM ID #	
		DOT NO./HAZARD CLASS	•	-			
NO.			EPA	X = (QTY.)	SIZE	S/L	AC
	(ACIDIFIED LAG	3 DEBRIS)		<u> </u>		
	(ACIDIFIED LAG 2(SULFURIL ORGANIE	ANIC DEBRIS	D002	1	1%	2	
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No. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Multiple Containers / Size = Container Size = 'L = Solid or Liquid / GRP = Compatibility Group Code / Drum = Drum Identification Number / AC = Acceptance Code

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

Completed By $RC_{J}W$ Date 2/22/00 Page ______ of ______

PACKING LIST



No. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Multiple Containers / Size = Container Size Solid or Liquid / GRP = Compatibility Group Code / Drum = Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

·. —	PACKING LIST					
CleanHarbors NATICK 10 Mercer Road	MAINE 17 Main Street So. Portland, ME 04106 EPA ID #MED 980672182 (207) 799-8111		PCN APPL # MANIFEST D JL &52 GRP1	_	M ID #	
Natick, MA 01760 EPA ID #MAD 980523203 (508) 655-8863				LC (¥		
GENERATOR <u>57189211</u>	DRUM SIZE 5DF	- 1		· · · · · · · · · · · · · · · · · · ·		•
CONTACT	_ DOT NO./HAZARD CLASS _\(\infty\)	7_				
NO. CHEMICAL NAME (No trade names)		EPA	X = (QTY.)	SIZE	S/L	AC
4-METHYLPEN	FENT -1	D001	1	IQT		
4-METHYL PEN	BRER	1	1	1*	5	

NO.	CHEMICAL NAME (No trade names)	EPA	X = (QTY.)	SIZE	S/L	AC
	4-METHYL PENFENE -1 URETHANE RUBBER	D001		IQT		
	WRETHANE RUBBER	-	ļ	1%	5	!
	· · · · · · · · · · · · · · · · · · ·					
	-					
	-					

No. = Reference Number / EPA = Waste Code / DOT = UN-NA No. or Haz. Class / X = Multiple Containers / Size = Container Size = Solid or Liquid / GRP = Compatibility Group Code / Drum = Drum Identification Number / AC = Acceptance Code

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

Completed By

TL85211008

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINIT; ONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for FOO1 through FOO5, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WM" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UNC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMSST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UNC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

CHARACTERISTIC WASTES DOOT THROUGH DO43 SECTION 1.

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: VASTEVATER/ NON-WASTEVATER	COLUMN 4: HANDLING CODE
11598P	0001 (×) 0001		[] WY (X Non-W)	1(2) 3 4 6 (1A) 3 6
Lla,d_	6∕) D002 [] D003		[] MM [2] Hou-M	12346
	[] [] [] [] [] [] [] [] [] [] [] [] [] [Reactive Sulfide, per 261.23(a)(5) Reactive Cyanide, per 261.23(a)(5) Explosive, per 261.23(a)(6), (7) & (8) Water Reactive, per 261.23(a)(2), (3) & (4) Other Reactive, per 261.23(a)(1) Unexploded Ordnance, Emergency Response Arsenic Barium	[] WW [] Non-WW [] WW [] Non-WW [] WW [] Non-WW [] Won-WW [] Won-WW [] WW [] Non-WW [] WW	1 3 4 5 6 1 3 4 5 6 1 2 3 4 6 1 2 3 4 6 1 2 3 4 6 1 3 4 5 6 1 2 3 4 6
	[] [] [] D007	Cadmium Cadmium Containing Batteries Chromium	[] WW	1 2 3 4 6 2 3 6
	() D008 ()	Lead Lead Acid Batteries	[] WW [] Non-WW	1 2 3 4 6 2 3 6

4. - -

SECTION 1. CHARACTERISTIC WASTES DO01-43 (CONTINUED)

COLUMN 1: LINE ITEM		COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/	COLUMN 4: HANDLING CODE
SEE MANIFEST	2 10 00	<u>-</u>	NON-WASTEWATER	
	[] D009	ų.		
	[]	Low Hercury, less than 260 mg/kg Hercury High Hercury Organic Subcategory	[] WW [] Non-WW	1 2 3 4 2 3 4
	[] [] D010	High Mercury Inorganic Subcategory	[] Won-WW only [] WW [] Non-WW	2 3 4
	[] DO10 [] DO11	Selenium Silver	[] WW	1 2 3 4 6 1 2 3 4 6
	(1 0012	Endrin	[] W [] Hon-W	2 3 4 5 6
	[] 0013	Lindane	WJ-nok [] WJ []	2 3 4 5 6
	[] 0014	Hethoxychlor	[] W [] Non-W	2 3 4 5 6
	[] D015 [] D016	Toxaphene 2,4-0	[] W/ [] Non-W/] W/ [] Non-W/	2 3 4 5 6 2 3 4 5 6
	[] 0017	2,4,5-TP (Silvex)	[] W [] Non-W	23456
	[] D018	Benzene	[] WV [] Non-W	1 2 3 4 6
	[] D019	Carbon tetrachloride	[] W [] Non-W	1 2 3 4 6
	[] D020	Chlordane	[] W [] Non-W	1 2 3 4 6
	[] 0021	Chlorobenzene : Chloroform	[] WW	1 2 3 4 6
	[] D022 [] D023	o-Cresol	[] WW [] Non-W	1 2 3 4 6
	[] D024		[] W [] Non-W	1 2 3 4 6
	() 0025	p-Cresol	[] W [] Non-W	1 2 3 4 6
	() 0026	Cresol	[] W [] Non-W	1 2 3 4 6
	[] D027 [] D028	1,4-Dichlorobenzene 1,2-Dichloroethane	[] WW	1 2 3 4 6
	[] D029	1,1-Dichloroethylene	[] W [] Non-W	1 2 3 4 6 1 2 3 4 6
	() 0030	2,4-Dinitrotoluene	[] W [] Non-W	1 2 3 4 6
	[] 0031	Heptachlor (and its epoxide)	[] W [] Non-W	1 2 3 4 6
	[] 0032	Hexachlorobenzene	[] W/ [] Non-W/	1 2 3 4 6
	[] D033 [] D034	Hexachlorobutadiene Hexachloroethane	[] WW	1 2 3 4 6
	[] 0034 [] 0035	Hethyl ethyl ketone	[] W [] Non-W	1 2 3 4 6
	[] 0036		[] W	1 2 3 4 6
	[] 0037	Pentachlorophenol	[] WW [] Hon-WW	1 2 3 4 6
	[] D038	· ·	[] W// [] Non-W/	1 2 3 4 6
	[] 0039	Tetrachloroethylene	[] WW	1 2 3 4 6
	[] 0040 [] 0041	Trichloroethylene 2,4,5-Trichlorophenol	[] WW [] Non-WW	1 2 3 4 6
	[] D042		[] W [] Non-W	1 2 3 4 6
	[] D043		[] WW	1 2 3 4 6
SECTION II.	SPENT SOLVE	NT WASTES FOOT THROUGH FOOS		
COLUMN 1:		COLUMN 2:	COLUMN 3:	COLUMN 4:
LINE ITEM		WASTE CODE / CONSTITUENTS	WASTEWATER/ NON-WASTEWATER	HANDLING CODE
SEE MANIFEST			NON-WASIEWATER	
	[] F001	[] F002 [] F003 [] F004 [] F005	() WW () Non-WW	3 4 5 6
()	I. ALL ⁷ F001	-F005 [] 12. Cyclohexanone		Pyridine
	2. Acetone	<u> </u>	nzene [] 26.	Tetrachloroethylene
	8 Benzene	[] 14. 2-Ethoxyethar		Toluene
	. n-Butyl . Carbon d			1,1,1-Trichloro- ethane
		etrachloride [] 16. Ethyl benzene		1,1,2-Trichloro-
	7. Chlorobe	nzene [] 17. Ethyl ether		ethane
	3. o-Cresol	[] 18. Isobutyl alco		Trichloroethylene
() (m-Cresol distingu	(difficult to [] 19. Methanol ish from [] 20. Methylene chi	[] 31.	1,1,2-Trichloro-
	p-cresol			1,2,2-trifluoroetha
()	10. p-Cresol	(difficult to [] 22. Methyl isobut		methane
	distingu	ish from[] 23. Nitrobenzene	() 33.	Xylene - mixed ison
	m-cresol	mixed isomers [] 24. 2-Nitropropar only)	ne (F005	(sum of o-, m-, and p-xylene)
		mixed isomers only) o-, m- and		א אוננווכו
	p-cresol			

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.

TISKALLER

CAND DISPOSAL	RESIRECTION NOTIFICATION FORM LDX-1 Manifes	ST NO.			000	TT	<u>a</u>	$\Sigma \Sigma$							
SECTION III.	CALIFORNIA LIST WASTES								-						
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY			COLUMN 3: Wastewater/ Non-Wastewater							COLUMN 4: HANDLING CODE				
	Hazardous waste containing one or more of the following California List constituents:	()	w	[]	Non-W	1	2	3	4	5	6				
	[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/ [] Liquids with thallium greater than or equal to 130 m [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg														

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEVATER/ NON-WASTEVATER	COLUMN 4: HANDLING CODE
· · · · · · · · · · · · · · · · · · ·	ener <mark>ij</mark>	[] W [] Non-W	3 4 5 6
		[] W/ [] Non-W/	3 4 5 6
		[] WW [] Non-WW	3 4 5 6
		[] WW [] Non-WW	3 4 5 6
		[] WW [] Non-WW	3 4 5 6

[] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CVA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CVA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code 0001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CHBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

Manifest	No.	IL8501608

SECTION	Ĭ.	UNDERLYING	HAZARDOUS	CONSTITUENTS	(UHC'S)
35611011	• •	ONDEKDITING	UVPVVVVA	CONSTITUTION	10116

Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste. X

SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer co the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

	() Acenaphthylene	72.	{ } Chlordane (alpha and gamma
:	() Acenaphthene	·*·	1 somers)
	Acetone	73.	· ·
•			• • • • • • • • • • • • • • • • • • • •
·			[] Chlorobenzene
•	{ } Acetophonone	75.	[] Chlorobenzilate
	() 2-Arety amanofluorene	75	il a-Chloro-1,3-burndiche
		17.	; ; Thiorodibromomernane
·	[] Acrylamide (*)	78	[] Chloroethane
:	[] Acrylonitrile	79.	() bis(2-Chloroethoxy)methane
1	[] Aldicarb sulfone (*)	80.	[] bis(2-Chloroethyl)ether
• ——	[] Aldrin	81	[] Chloroform
•	[] 4-Aminobiphenyl	82	[] bis(2-Chlorolsopropyl)ether
•	_ [] Aniline	83	() p-Chloro-m-cresol
	[] Anthracene	84	<pre>{ } 2-Chloroethyl vinyl ether (*)</pre>
	[] Antimony	85	() Chloromethane (Methyl Chloride)
	[] Aramite	86	[] 2-Chloronaphthalene
	{ } Arsenic	87.	[] 2-Chlorophenol
	() alpha-BHC	88.	[] 3-Chloropropylene
•	[] beta-BHC		() Chromium (Total)
·	() delta-BHC	90.	[] Chrysene
·	() gamma-BHC	91.	[] o-Cresol
2.	(] Barban (*)	92.	[] m-Cresol (difficult to
•	•		distinguish from p-Cresol)
j	[] Bendiocarb (*)	93.	[] p-Cresol (difficult to
ś			distinguish from o-Cresol)
·	[] Benzene	262	[] m-Cumenyl methylcarbamate (*)
:	[] Benz(a)anthracene	94.	() Cyanides (Total)
:	[] Benzal chloride (*)		[] Cyanides (Amenable)
:	[] Benzo(b) fluoranthene (difficult		[] Cycloate (*)
• ——	to distinguish from	263	•
	Benzo(k) fluoranthene)	0.7	[] Cyclohexanone
		98.	[] 1,2-Dibromo-3-chloropropane
•			() 1.2-Dibromoethane (Ethylene dib
	to distinguish from	99. ——	[] Dibromomethane
	Benzo(b) fluoranthene)	100.	[] 2.4-Dichlorophenoxyacetic acid
٠	{ } Benzo(g,h,1)perylene	101.	() o,p'-DDD
·	[] Benzo(a) pyrene	102.	() p,p'-DDD
		103.	{ } o,p'-DDE
·	[] Bromodichloromethane	104.	{ } p,p'.ODE
	[] Bromomethane (Methyl bromide)	105	() o.p'-DDT
,	[] 4-Bromophenyl phenyl ether	106	() p,p'-ODT
	[] n-Butyl alcohol	107.	() Dibenz(a,h)anthracene
6.	() Butylate (*)	108.	() Dibenzo(a,e)pyrene
	[] Butyl benzyl phthalate	109.	[] m-Dichlorobenzene
	[] 2-sec-Butyl-4,6-dinitrophenol	110.	o-Dichlorobenzene
	(Dinoseb)	111.	
	[] Cadmium	112.	Dichlorodifluoromethane
·	() Carbaryl (*)	113.	• •
, 9.	[] Carbendazim (*)	.14.	1.2 Dichloroethane
		115.	
°	[] Carbofuran phenol (*)	116.	[] trans-1,2-Dichloroethylene
	() Carbon disulfide	117	2.4-Dichlorophenol
	•	117.	
	•	118.	2,6-Dichlorophenol
1	[] Carbosulfan (*)	119.	<pre>{</pre>
		120	

	NMENTAL SERVICES, INC. CTION NOTIFICATION FORM LDR-1 ADDENDU	H Manifest No.	IL8521608
122[] Dieldrin	181{	Methyl athyl ketona
123.		182 (
124 (] 2,4-Dimethyl phenol	183 (Methyl methacrylate
125.	• •	184(Methyl methansulfonate
	Di-n-butyl phthalate	185.	• •
	1 1,4-Dinitrobenzene 1 4,6-Dinitro-o-cresol	274	
	2.4-Dinitrophenol	275. [276. [
130.		186.	· - • •
131.		187.	•
132.] Di-n-octyl phthalate	188.	• • • • • • • • • • • • • • • • • • • •
133 () p-Dimethylaminoazobenzene (*)	189 {	o-Nitroaniline (*)
134 l] Di-n-propylnitrosoamine	190 [
135(191 (
136.	• •	192 (
	distinguish from	193.	
	diphenylnitrosamine)	194.	
137	Diphenylnitrosamine (difficult to	195	
139	distinguish from diphenylamine)] 1,2-Diphenylhydrazine	196.	
138 {	- · · · · · · · · · · · · · · · · · · ·	198.	
266.	Dithiocarbamates (Total) (*)	199.	
140.		200.	
141.] Endosulfan II	201.	N-Nitrosopyrroliding
142.] Endosulfan sulfate	277.	
143) Endrin	202 (
144 [} Endrin aldehyde	203.	
267			or al! Arochlors)
145		274.	1 Tabblate (*)
140[204 {	
147.		205	
148	· ·	206	p-dioxins)
149 [150 [206.	
150 {	Ethylene oxide	208.	· · · · · · · · · · · · · · · · · · ·
152.	} Famphur	209.	
153.		210.	• • • • • • • • • • • • • • • • • • • •
154.		211.	
155.] Fluoride	212.	
268[213. [
156 (i	214 (} Phthalic acid (*)
157		215	
158 [159 [280.	
		291.	
	HxCDDs (All hexachlorodibenzo-	216.	· · · · · · · · · · · · · · · · · · ·
	p-dioxins)	283.	
162{	1 HxCDFs (All hexachlorodibenzo-	284.	•
-	(urans)	285.	· · · · · · · · · · · · · · · · · · ·
163() Hexachloroethane	217.	
164.] Hexachloropropylene	219(Pyridine
165	· · · · · · · · · · · · · · · · · · ·	219) Safrole
270[220[·
	n-bucylcarbamace (*)	221	
166.		222.	*
168.		223.	
169.		224	<pre>2,4,5-T (2,4,5-Trichlorophenoxyace acid)</pre>
170.		225	
171.		226.	
172 [) Mercury Nonwastewater from Retort		p-dioxins)
173 (· · · · · · · · · · · · · · · · · · ·	227 [TCDFs (All tetrachlorodibenzofuran
174	l Methacrylonitrile	2 2 3	l.l,l,2-Tetrachloroethane
175		123	
176	Methapyrilene	230	
	Methiocarb (*)	231.	
	Methomyl (*)	232.	
	Methoxychlor Methylcholanthrene	256 [
	•		
180.	· ·	234	
		299	· ·
		235	

1		NVIRONMENTAL SERVICES, INC. ESTRICTION NOTIFICATION FORM LDR-1 A	DENDUM Manif	18521008
,	236	[] 1,2,4-Trichlorobenzene	244	[] 1,1,2-Trichloro-1,2,2-trifluoroetha
,	237.	[] 1.1.1-Trichloroethane	290.	
	238.	[] 1,1,2-Trichloroethane	. 245	[] tris-(2,3-Dibromopropy))phosphate
	239.	[] Trichloroethylene	246.	[] Vanadium (*)
	240.	[] Trichloromonofluoromethane	291.	Vernolate (*)
	241.	[] 2,4,5-Trichlorophenol	247.	Vinyl chloride
•	242	2.4.6-Trichlorophenol	248.	Xylenesmixed isomers (rum of o-,
	243.] 1.2.3-Trichloropropane		m-, and p-xylene concentrations)
			249.	() Zinc (*)

KEY TERMS/DEPINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in \$268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in \$268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluorids, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present a the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]



Waste Tracking Report

September 12,2000

Page 1

IND040888992

IN0188

6500 Industrial Highway Group Gary, IN

Manifest Dates: 01/01/00

to 09/12/00

CHI Receiving Facility: Clean Harbors - Cincinnati, OH

Mnfst No:	IL8521608 Code		Gen Sign Date:	02/22/00	Date Received: 03/01	/00) Manifest Out	Date	M-Code
	Code	Qty	UOM	. ·	Disposal Site		Maillest Out	Date	
Line: 11A	Profil	le No:	LCCRU		Manifested Qty:	1	DF	2 P	
1572687	LCCRU	5	GALS		Von Roll America, Inc.		OH93182-SG2395	04/27/00	M043
Line: 11B	Profi	le No:	LCCRU		Manifested Qty:	1	DF	4 P	
1572688	LCCRU	5	GALS		Von Roll America, Inc.		OH93181-SG2395	04/27/00	M043
Line: 11C	Profi	le No:	LCCRU		Manifested Qty:	1	DF	3 P	
1572689	LCCRU	5	GALS	I,	Von Roll America, Inc.		OH93180-SG2395	04/27/00	M043
Line: 11D	Profi	ile No:	LCCRU		Manifested Qty:	1	DF	1 P	
1572690	LCCRA	5	GALS		Von Roll America, Inc.		OH93182-SG239	5 04/27/00	M043
Line: 28A	Profi	ile No:	LCCR	,	Manifested Qty:	1	CF	1 P	
1572691	LCCRI	1	LBS		Clean Harbors - Chicago, IL		IL8488736	03/16/00	M141
					Onyx Environmental Service	es	IL8599736	04/05/00	M043
Line: 28B	Prof	ile No:	LCCRD		Manifested Qty:	1	DF	3 P	
1572692	LCCRD	5	GALS	*************	Clean Harbors - Chicago, IL	,	IL8488737	03/16/0	0 M141
was tra	insferred into	: 16398	329		Essroc Logansport IN		INA1454332	06/09/0	0 M051



Waste Tracking Report

September 12,2000

Page 2

Clean Harbors - Cincinnati, OH 4879 Spring Grove Avenue Cincinnati, OH 45232 OHD000816629

Certificate of Treatment/Disposal - Storage and Transfer

IL8521608

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Signed:	Muchael June	Date: _	9/13/00
Title:	SPA		

		UNIFORM HAZARDOUS WASTE MANIFEST	1 Generator's US EP	P.88.8	9.2.0.0	ument No.	۱۱ ،			in the shade ed by Federa				
	3	Generator's Name and Mailing Address Kringu, Pyles Ryslevicz HIH Pluzy Dr. Suite 100 Westymont IL- 60559	d cissor 640 620 620	n Endaz o N Enz Pl N T YN	whilt in H lants 20424	y hway	В	B State Generator's ID						
	5	Generator's Phone (630) 35-13 Transporter 1 Company Name Lean Parlows FNO, SCNVI	<u>50</u>	US EP	A ID Numb	er	C. (C. State Transporter's ID \(\mathbb{UP\wo\go7\43.0\) D Transporter's Phone \(\frac{78}{18}\)\(\mathbb{E}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathbb{P}\)\(\mathbb{H}\)\(\mathb						
		Transporter 2 Company Name	E. 5	E. State Transporter's ID F. Transporter's Phone										
	9	Designated Facility Name and Site Address Spring Grove Rusource Rus	G. 8	State Facility	/'s ID									
	L	4879 Spring Grand and. CINCHINADO OH 452	10.H	D.0.0.	2816			800/2	<u>14 -573</u>	88				
G	⊢	US DOT Description (Including Proper Ship		lass and ID	Number)	12 Cont	Type	Total Quantit	y Wt/Vo	1				
N E R A	а	Woste Flammable Lighed 3, UN 1993 II (Fred Characterized)				0.03	DF	0.0.0	15 6	DOOI				
T O R	b	X South Comosin Lio	(00; On)	.s.)		0.0.1	70	0.0.00	210	Dars	•			
	С			, , , , , , , , , , , , , , , , , , ,	Ţ									
	d													
		Additional Descriptions for Materials Listed a) LP 3 x 16 DF LCR						ndling Code	s for Wast	es Listed Abo	ove			
	"	6) LP / IXSDE LEUR	-W-B-CH	14420	<i></i>	· .	P-=	Pound						
	15	Special Handling Instructions and Addition	al Information											
		GENERATOR'S CERTIFICATION: I hereby declare in proper shipping name and are classified, packed, marked	hat the contents of this con	nsignment are f	ully and accur	alely describ	ed abo		13					
		according to applicable international and national go If I am a large quantity generator I certify that I economically practicable and that I have selected future threat to human health and the environmen the best waste management method that is available	vernment regulations have a program in place the practicable method o t, OR, if I am a small qu	to reduce the of treatment, santify generate	volume and storage, or di	loxicity of w sposal curre	asie ge	nerated to the	which minim	izes the preser	nt and			
▼	_	HOMAS J. RYSIBUICZ			Ther	J.	R	<u>1ui</u>		Month Day 0 4- 2 4	Year OO			
RANS	17	Printed/Typed Name David C	EQC/	Signature	Do	bun	E E	mer,	ر	Monih Day	Vear 0 0			
ORTER	18.	Transporter 2 Acknowledgement of Receip Printed/Typed Name	t of Materials	Signature					j	Month Day	Year			
F	19.	Discrepancy Indication Space		-1						<u> </u>				
AC-	20.	Facility Owner or Operator: Certification of	receipt of hazardous r	materials co	vered by the	is manifes	excer	ot as noted	n Item 19					
;		Printed/Typed Name		Signature						Month Day	Year			

Manifest No. <u>C733593</u>

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a)(2), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

- Column 1 Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
- Column 2 Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
- Column 3 Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
- Column 4 LDR Handling Code: Circle the appropriate handling code, as follows:
 - 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
 - 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
 - 2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
 - 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
 - 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(2): the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form. These constituents are being treated to comply with 40 CFR 268.45.
 - S = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
 - 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified, however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.
- *** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES DOOL THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST	- '		COLUMN 2: WASTE CODE / SUBCATEGORY		COLUMN 3: WASTEWATER/ NON-WASTEWATER		COL			
-11-4	[]	D001	Ignitables, except High TOC subcategory	[]	WW [] Non-WW	人	2	3	4	6
<u> 11 A</u>	(30)	D001	High TOC Ign:table Liquids Subcategory (Greater than or equal to 10% TOC)	Ø	Non-WW only	ſīλ)	3	6	
NB_	[5 4]	D002 D003	Corrosives	[]	ww Mon-ww	1	②	3	4	6
		[]	Reactive Sulfide, per 261.23(a)(5)	[]	WW [] Non-WW	1	3	4	5	6
		[]	Reactive Cyanide, per 261.23(a)(5)	[]	WW [] Non-WW	1	3	4	5	6
		[]	Explosive, per 261.23(a)(6), (7) & (8)	[]	WW [] Non-WW	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-WW only	1	2	3	4	6
		l 1	Other Reactive, per 261.23(a)(1)	[]	WW [] Non-WW	1	2	3	4	6
		[]	Unexploded Ordnance, Emergency Response	[]	WW [] Non-WW	1	3	4	5	6
	[]	D004	Arsenic	()	WW [] Non-WW	1	2	3	4	6
	[]	D005	Barium	()	WW [] Non-WW	1	2	3	4	6
	[]	D006	,							
		[]	Cadmıum	[]	WW [] Non-WW	1	2	3	4	6
		[]	Cadmium Containing Batteries	[]	Non-WW only	2	3	6		
	[]	D007	Chromium	[]	WW [] Non-WW	1	2	3	4	6
	[]	D008								
•		[]	Lead	[]	WW [] Non-WW	1	2	3	4	6
		[]	Lead Acid Batteries	[]	Non-WW only	2	3	6		

p-cresol)

Manifest No. <u>0738593</u>

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST		COLUMN 2: WASTE CODE / NAME		N		MN 3: WATER/ TEWATE	R		OLUMN		Ε
	[] D009										
	[]	Low Mercury, less than 260 m	g/kg Mercury [] W	w [] Non	- WW	1	2 3	4	
	ίí	High Mercury Organic Subcate	• • •		lon-ww	-	••••		3 4	•	
	[]	High Mercury Inorganic Subca			Non-WW	_			3 4		
	[] D010	Selenium		} W	W [] Non	- WW	1	2 3	4 (5
	[] D011	Silver	£	} h	₩ {] Non	- WW	1	2 3	4 (5
	[] D012	Endrin .	1] W) Wi] Non	-WW	2	34	5 (5
	[] D013	Lindane	-	-) Non			3 4	5 (
	[] D014	Methoxychlor	-	-	-] Non			3 4	5 (
	[] D015	Toxaphene		-] Non			3 4	5 (
	[] D016	2,4-D]) Non			3 4	5 6	_
	[] D017 [] D018	2,4,5-TP (Silvex) Benzene	l I	-		Non Non			3423	5 6	
	[] D018	Carbon tetrachloride			_] Non			23	4 (
	[] D020	Chlordane	-	-	-) Non			2 3	4 6	
	[] D021	Chlorobenzene		-] Non			2 3	4 6	
	[] D022	Chloroform	=	-	-] Non		_	2 3	4 6	
	[] D023	o-Cresol		-] Non			2 3	4 6	5
	[] D024	m-Cresol	Ī) W	w [] Non	- WW	1	2 3	4 6	5
	[] D025	p-Cresol	ĵ) W	W [] Non	- WW	1	2 3	4 6	5
	[] D026	Cresol	Ţ] W	W [] Non	- WW	1	2 3	4 6	5
	[] D027	1,4-Dichlorobenzene	[} W	W [] Non	-WW	1	23	4 6	5
	[] D028	1,2-Dichloroethane	Ţ) W	W [) Non	-WW	1	23	4 6	5
	[] D029	1,1-Dichloroethylene	į.] Non			2 3	4 6	
	[] D030	2,4-Dinitrotoluene) W) Non			2 3	4 6	
	[] D031	Heptachlor (and its epoxide)	Ţ] Non			2 3	4 6	
	[] D032	Hexachlorobenzene	Ĺ	-	•] Non			2 3	4 6	
	[] D033	Hexachlorobutadiene]	-	•) Non			2 3	4 6	
	[] D034 [] D035	Hexachloroethane Methyl ethyl ketone	}]		•] Non		_	23	4 6	
	[] D035	Nitrobenzene	[-	-] Non		_	23	4 6	
	[] D037	Pentachlorophenol	[] Non			2 3	4 6	
	[] D038	Pyridine	j	-) Non			2 3	4 6	
	[] D039	Tetrachloroethylene	i] Non			2 3	4 6	
	[] D040	Trichloroethylene	į	-	•] Non		_	2 3	4 6	,
	[] D041	2,4,5-Trichlorophenol	Ĭ) W	w (] Non	-ww	1 2	2 3	4 6	i
	[] D042	2,4,6-Trichlorophenol	ſ	} W	W [] Non	- WW	1 2	2 3	4 6	;
	[] D043	Vinyl Chloride	[) W	W [) Non	- WW	1 2	2 3	4 6	;
SECTION II. COLUMN 1: LINE ITEM SEE MANIFEST	SPENT SOLVE	NT WASTES F001 THROUGH F005 COLUMN 2: WASTE CODE / CONSTITUENTS		N	COLUN WASTEW ON-WAST	NATER/	ŧ		OLING		:
	[] F001	[] F002 [] F003 [] F	004 [] F005 [] W	W [] Non-	WW	3	4 !	56	
[]	1. ALL F001		2. Cyclohexanone	j W	w () NOT		. Pyrid		5 0	
i i	2. Acetone		. o-Dichlorobenzene				-	. Tetra		roeth	ylene
()	3. Benzene		. 2-Ethoxyethanol (i	-	. Tolue			•
[]	4. n-Butyl	alcohol	only)			_ i		. 1,1,1	-Tric	chlor	0-
[]	5. Carbon d		. Ethyl acetate					ethane	2		
[]			. Ethyl benzene			[29.	. 1,1,2		chlor	0-
[]	7. Chlorober		. Ethyl ether			_	_	ethane			
[]	8. o-Cresol		. Isobutyl alcohol			<u> </u>	•	. Trich		•	
[]). Methanol			— (31.	. 1,1,2			
	distingui). Methylene chlorid								ethane
[]	p-cresol)		Methyl ethyl keto 2. Methyl isobutyl ke			(, 32.	. Trıch methan		TOLIOL	raoro-
' '	distingui		:. Metnyi isobutyi k Nitrobenzene	eror	14	t	1 22			11 YEZ	isomera
	m-cresol)		. 2-Nitropropane (F	005		<u> </u>	, ,,,,	sum c			
[]		mixed isomers	only)					p-xyle		,	
		-, m- and	• •					, .,	•		

Manifest No. <u>CD038503</u>

SECTION III.	CALIFORNIA LIST WASTES										
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		W.	COLUM ASTEW - WAST	ATER			OLU		-	Œ
	Hazardous waste containing one or more of the following California List constituents:	[]	WW	t :	No:	1 - WW	1 2	3	4	5	6
	<pre>[] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/ [] Liquids with thallium greater than or equal to 130 m [] Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg</pre>		•								
SECTION IV. O	THER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-,	บ-	, ANI	P-C	DDES)	ı					
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY		WA	COLUMI ASTEWA WASTI	TER/		HAN	DLI OLU			ÞΕ
		[]	ww	[]	Nor	ı - WW	3	4	•	5 6	;
		[]	ww	[]	Nor	1 - WW	3	4	5	5 6	;
		[]	ww	[]	Nor	1 - WW	3	4	9	5 6	i
		[}	ww	[]	Non	WW	3	4	5	6	ı
		[]	ww	[]	Non	ı – WW	3	4	5	. 6	ı
[] CHECK HER	E IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE A E IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED A	I	DENT	IFY F	039	CONST					PLETING
SECTION V. CO	NTACT NAME AND DATE TUNMAL RYSIL-WICZ				نايد	-71	L. 70	'n	\sim		

Print Name: THOMAS KYSIGURK.

AGENT FOR 6500 INOUSTRIAL

HIGHWAY GROUP

Date: 4-24-20

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

SECTION I. UNDERLYING HAZARDOUS CONSTITUENTS (UHC'S)

[] Check here if one or more of the constituents listed in Section IV below are reasonably expected to be present as an "Underlying Hazardous Constituent" in the waste. Then in Section IV, check off each constituent. Note that per the definition of UHC in 40 CFR 268.2, fluoride, selenium, sulfides, vanadium and zinc are NOT regulated as UHC's.

Check here if NONE of the UHC constituents listed in Section IV are expected to be present in the waste.

SECTION II. MULTI-SOURCE LEACHATE (WASTE CODE F039)

- [] Check here if one or more of the constituents listed in Section IV are present as a constituent in the multi-source leachate (F039) waste. Then in Section IV below, check off each constituent. Note that constituents which are identified by an asterisk (*) are NOT regulated as F039 constituents.
- [] Check here if NONE of the F039 constituents listed in Section IV are present in the waste.

SECTION III. HAZARDOUS DEBRIS CONTAMINANTS SUBJECT TO TREATMENT (CSTT)

- [] Check here if one or more of the constituents listed in Section IV is a CSTT for hazardous debris that is intended for treatment using the alternate treatment technologies in 40 CFR 268.45. To identify CSTT's, refer to the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40. Then, in Section IV below, check off the constituents that appear for each waste code used to identify the debris.
- [] Check here if the entry in the "Regulated Hazardous Constituent" column in the Treatment Standard Table in 40 CFR 268.40 is "Not Applicable", i.e. D001, D002, and D003 (non-cyanides subcategories only).

	IST OF CONSTITUENTS - INCLUDE MANIFEST LI	<u>NE I</u> TEM 72.	[] Chlandana /alaba and m
34	[] Acenaphthylene	· . ′4· ———	[] Chlordane (alpha and gamma
35	[] Acenaphthene		isomers)
36	[] Acetone	73.	[] p-Chloroaniline
37	[] Acetonitrile	74.	[] Chlorobenzene
38	[] Acetophenone	75	
39	[] 2-Aretylamanofluorene	75	
· · · · · · · · · · · · · · · · · · ·	ין אפנסידיני	<u> </u>	() Chlorodibcomomethane
41	[] Acrylamide (*)	78	
12	[] Acrylonitrile	79.	[] bis(2-Chloroethoxy)methane
251	() Aldicarb sulfone (*)	80.	[] bis(2-Chloroethyl)ether
43	[] Aldrin	81	
44	[] 4-Aminobiphenyl	82.	[] bis(2-Chloroisopropyl)ether
45	[] Aniline	83.	[] p-Chloro-m-cresol
46	[] Anthracene	84.	
47	[] Antimony	85	() Chloromethane (Methyl Chloride)
48	[] Aramite	86	[] 2-Chloronaphthalene
49	[] Arsenic	87.	
50	[] alpha-BHC	88	() 3-Chloropropylene
51	[] beta-BHC	89	() Chromium (Total)
52	() delta-BHC	90	[] Chrysene
53	[] gamma-BHC	91	[] o-Cresol
252	() Barban (*)	92	[] m-Cresol (difficult to
54.	[] Barium		distinguish from p-Cresol)
253	[] Bendiocarb (*)	; 93	
255		262	distinguish from o-Cresol)
55	[] Benzene		
56	[] Benz(a) anthracene	94	
57.	[] Benzal chloride (*)	95	
58	[] Benzo(b) fluoranthene (difficult	263	
	to distinguish from	96 97	
S9.	<pre>Benzo(k) fluoranthene) [] Benzo(k) fluoranthene (difficult)</pre>	97 98.	[] 1,2-Dibromo-3-chloropropane [] 1,2-Dibromoethane (Ethylene dibrom)
37	to distinguish from		
	Benzo (b) fluoranthene)		
60.	Benzo(g,h,1)perylene	100 101	[] o,p'-DDD
		102.	() p,p'-DDD
61.	[] Benzo(a)pyrene [] Berylium	103	[] o,p'-DDE
63.	[] Bromodichloromethane	104.	() p,p'-DDE
	[] Bromomethane (Methyl bromide)	105.	
64	[] 4-Bromophenyl phenyl ether	106.	() p,p'-DDT
66.	. [] n-Butyl alcohol	107.	
256.	[] Butylate (*)	108.	[] Dibenzo(a,e)pyrene
67	[] Butyl benzyl phthalate	109.	() m-Dichlorobenzene
68.	2-sec-Butyl-4.6-dinitrophenol	110.	o-Dichlorobenzene
***	(Dinoseb)	111.	p-Dichlorobenzene
69.	[] Cadmium	112.	Dighlorodifluoromethane
257.	• • • • • • • • • • • • • • • • • • • •	113.	[] 1.1-Dichloroechane
258.	() Carbendazim (*)	114.	
259.	() Carboturan (*)	115.	1 1,1-Dichloroethylene
260.	(Carboturan phenol (*)	116.	[] trans-1,2-Dichloroethylene
70.	[] Carbon disulfide	117	[] 2.4-Dichlorophenol
71.	[] Carbon tetrachloride	118.	
261.	() Carbosulfan (*)	119.	[] 1,2-Dichloropropane
		120	cis-1,3-Dichloropropylene
		. 121.	[] trans-1,]-Dichloropropylene

122.	[] Dieldrin	181.	[] Methyl ethyl ketone
123.	[] Diethyl phthalate	182.	[] Methyl isobutyl ketone
124.	[] 2,4-Dimethyl phenol	183.	[] Methyl methacrylate
125.	[] Dimethyl phthalate	184.	[] Methyl methanaulfonate
126.	() Di-n-butyl phthalate	185.	[] Methyl parathion
127.	[] 1,4-Dinitrobenzene	274.	[] Metolcarb (*)
128.	[] 4,6-Dinitro-o-cresol	275.	[] Mexacarbate (*)
129.	[] 2,4-Dinitrophenol	276.	[] Molinate (*)
120.		196	[] Naphthalene
130.	[] 2,4-Dinitrotoluene	186.	· · · · · · · · · · · · · · · · · · ·
131.	[] 2,6-Dinitrotoluene	187.	[] 2-Naphthylamine
132	[] Di-n-octyl phthalate	188.	[] Nickel
133	[] p-Dimethylaminoazobenzene (*)	189.	[] o-Nitroaniline (*)
134.	[] Di-n-propylnitrosoamine	190.	[] p-Nitroaniline
135.	() 1,4-Dioxane (*)	191.	[] Nitrobenzene
136.	[] Diphenylamine (difficult to	192.	[] 5-Nitro-o-toluidine
	diatinguish from	193	[] o-Nitrophenol (*)
	diphenylnitrosamine)	194.	[] p-Nitrophenol
137	[] Diphenylnitrosamine (difficult to	195.	N-Nitrosodiethylamine
	distinguish from diphenylamine)	196.	() N-Nitrosodimethylamine
138	[] 1,2-Diphenylhydrazine	197.	[] N-Nitroso-di-n-butylamine
139.	[] Disulfoton	198.	[] N-Nitrosomethylethylamine
266	[] Dithiocarbamates (Total) (*)	199	[] N-Nitrosomorpholine
266.	• • • • • • • • • • • • • • • • • • • •	199.	
140	[] Endosulfan I	200.	[] N-Nitrosopiperidine
141	[] Endosulfan II	201.	[] N-Nitrosopyrrolidine
142	[] Endosulfan sulfate	277.	() Oxamyl (*)
143	[] Endrin	202	[] Parathion
144.	[] Endrin aldehyde	203.	[] Total PCBs (sum of all PCB isomers,
267.	[] EPTC (*)		or all Arochlors)
145	Sthyl accrate	3 ^{ms} —	() Tabalate (+)
145.	(Ethyl cyanide (propanent cala)	204.	[] Pentachlurobenzene
147.	[] Ethyl benzene	205.	[] PeCDDs (All pentachlorodibenzo-
149			p-dioxins)
148	[] Ethyl ether	226	
149.	[] bis(2-Ethylhexyl)phthalate	206.	[] PeCDPs (All pentachlorodibenzofurans)
150	[] Ethyl methacrylate	207.	() Pentachloroethane (*)
151	[] Ethylene oxide	208	[] Pentachloronitrobenzene
152	[] Famphur	209	[] Pentachlorophenol
153	[] Fluoranthene	210	[] Phenacetin
154.	[] Fluorene	211.	[] Phenanthrene
155.	[] Fluoride	212.	[] Phenol
268.	[] Formetanate hydrochloride (*)	213.	[] Phorate
156.	[] Heptachlor	214.	() Phthalic acid (*)
157.	[] Heptachlor epoxide	215.	[] Phthalic anhydride
158	[] Hexachlorobenzene	200	[] Physostigmine (*)
158.	,	280.	• • •
159.	[] Hexachlorobutadiene	291.	
160	[] Hexachlorocylopentadiene	282.	• • • • • • • • • • • • • • • • • • • •
161.	[] HxCDOs (All hexachlorodibenzo-	216.	() Pronamide
	p-dioxins)	283.	[] Propham (*)
162	{ } HxCDFs (All hexachlorodibenzo-	1284	[] Propoxur (*)
	furans)	285	[] Prosulfocarb (*)
163	(} Hexachloroethane	217.	[] Pyrene
164	[] Hexachloropropylene	219	[] Pyridine
165	[] Indeno (1,2,3-c,d)pyrene	219	[] Safrole
270	[] 3-Iodo-2-propynyl	220	[] Selenium
	n-butylcarbamate (*)	221.	[] Silver
166	[] Iodomethane	222.	[] Silvex (2,4,5-TP)
167.	[] Isobutyl alcohol	223.	[] Sulfide
168.	[] Isodrin	224.	[] 2,4,5-T (2,4,5-Trichlorophenoxyacetic
169	[] Isosafrole		acid)
169.	* *	775	
170.	[] Kepone	225.	
171.	() Lead	225	• • • • • • • • • • • • • • • • • • • •
172.	[] MercuryNonwastewater from Retor	C	p-dioxins)
173.	[] MercuryAll others	227.	[] TCDFs (All tetrachlorodibenzofurans)
174	[] Methacrylonitrile	229	[] 1,1,1,2-Tetrachloroethane
175	() Methanol	229	[] 1,1,2,2-Tetrachloroethane
176.	[] Methapyrilene	23'0.	[] Tetrachloroethylene
272.	[] Mechiocarb (*)	,231.	[] 2,3,4,6-Tetrachlorophenol
273.	[] Methomyl (*)	232.	{ } Thallium
177.	[] Methoxychlor	286	[] Thiodicarb (*)
178.	[] 3-Methylcholanthrene		[] Thiophanate-methyl (*)
179	<pre>() 4.4-Methylene-bis(2-chloroaniline</pre>		
179.		, 433. ——————————————————————————————————	• •
180.	[] Methylene chloride	234.	[] Toxaphene [] Triallate (*)
		289.	() Triallate (*)
		236	I I Twibromomer have (December 1)
		235.	[] Tribromomethane (Bromoform)

1			ENTAL SERVICES, INC. 'ION NOTIFICATION FORM LOR-1 ADD	ENDUM Man	llest No	C7838593
•	236	[]	1,2,4-Trichlorobenzene	244.	1.1	1,1,2-Trichloro-1,2,2-trifluoroethan
•	237.	()	1,1,1-Trichloroethane	290.	()	Triethylamine (*)
	238	ιj	1,1,2-Trichloroethane	245.	i i	tris-(2,3-Dibromopropy))phosphate
	239.	1 1	Trichloroethylene	246.	11	Vanadium (*)
	240.	(1	Trichloromonofluoromethane	291.		Vernolate (*)
	241.	()	2,4,5-Trichlorophenol	247.	- 11	Vinyl chloride
•	242	[]	2,4,6-Trichlorophenol	248.	1 1	Xylenesmixed isomers (sum of o-,
	243	1.1	1,2,3-Trichloropropane			in-, and p-xylene concentrations)
			, ,	249.	1.1	7ing (a)

KEY TERMS/DEPINITIONS

CONTAMINANTS SUBJECT TO TREATMENT (CSTT) are the specific constituents listed by waste code number in the Treatment Standard Table in \$268.40. CSTT's must be identified for all hazardous debris wastes that are intended for treatment using one of the hazardous debris alternate treatment technologies described in \$268.45.

REASONABLY EXPECTED TO BE PRESENT means that the generator is relying on knowledge of the raw materials used, the process, and potential reaction products, or on the results of a one-time analysis for the entire list of UHC's that may be present in the untreated hazardous waste. If a one-time analysis of the entire list of UHC's is conducted, subsequent analyses are required for only those pollutants which would reasonably be expected to be present in the waste as generated, based on the previous sampling and analysis results.

UNDERLYING HAZARDOUS CONSTITUENT (UHC) means any constituent listed in \$268.48 Table UTS - Universal Treatment Standards (except fluoride, selenium, sulfides, vanadium and zinc) which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard. [See 40 CFR 268.2]



Completed By

PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. #_ DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 EPA ID # MAD980523203 (508) 655-8863 6500 Industrial Hickory GENERATOR (JOB #) DOT NO /HAZARD CLASS CONTACT DRUM SIZE 715 ppinu, 8, 6 mil W. mar 17 stran UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE CIRCLE ONE FOLLOWING CHEMICAL CHARACTERISTICS: LIQUID CHEMICALS IN THIS CONTAINER ARE? SOLID WHEN WATER IS ADDED TO THE MATERIAL IT IS ? SOLU INSOL RCT YES NOT THE MATERIAL IS AN OXIDIZER ? THE MATERIAL IS A RADIOACTIVE? YES NQ THE MATERIAL IS A PYROPHORIC? YES NO. THE MATERIAL CONTAINS CYANIDES? YES NQ. THE MATERIAL CONTAINS SULFIDES ? YES NQ NO. THE MATERIAL CONTAINS PCB'S? YES. THE MATERIAL HAS A FLASH POINT OF? < 140 E >140 F THE MATERIAL HAS A Ph OF ? Ph<4 Ph 4 -10 Ph > 10 NO. DESCRIPTION PH EPA X = (QTY)SIZE S/L AC > Eilos fort Kinger - reter X2 DE MN T "10. = Reference Number / EPA = Waste Code / DOT = UN-NA No or Haz. Class / X = Mulitple Containers / Size = Container Size / GRP = Compatibility Group Code / Drum Identification Number / AC = Acceptance Code THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.



PACKING LIST UNKNOWN CHEMICAL

MANIFEST DOC. #__ GRP DRUM ID # NATICK 10 MERCER ROAD, NATICK, MA 01760 EPA ID # MAD980523203 (508) 655-8863 Gross Endestral Hithway Growp IIC

GENERATOR (JOB #) CONTACT C DRUM SIZE	L DOT NO) /HAZARD CL	ACC						
GENERATOR (JOB #) CONTACT DAVID PULS DRUM SIZE 5 401	26 C	311 122 51	Circul en	, ros s	NN &	1760			
UNKNOWN CHEMICALS IN THIS CONTAINER HAVE THE FOLLOWING CHEMICAL CHARACTERISTICS:			CIRCLE	•					
CHEMICALS IN THIS CONTAINER ARE ?			SOLID		QUID	<u> </u>			
WHEN WATER IS ADDED TO THE MATERIAL IT IS ?		SOL		SOL	RC	T			
THE MATERIAL IS AN OXIDIZER ?			YES	(NO)					
THE MATERIAL IS A RADIOACTIVE ?			YES	(DM)					
THE MATERIAL IS A PYROPHORIC ?			YES		NO)				
THE MATERIAL CONTAINS CYANIDES ?			YES		NO				
THE MATERIAL CONTAINS SULFIDES ?			YES		NO)				
THE MATERIAL CONTAINS PCB'S ?			YES		NOY				
THE MATERIAL HAS A FLASH POINT OF ?			< 140 F		140 FC				
THE MATERIAL HAS A Ph OF ?	T	Ph<		<u> </u>	Ph>				
NO. DESCRIPTION Lear Line Sornisoled	PH ≥12,5	D)COG)	X = (QTY)	SIZE	S/L	AC			
T CAUT MAN O SOLVIDONO	- 10(1)	محرنا	<u></u>		1				
					 				
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1x1at Packed into 150x1DF									
表码 *									
truc) mard later 202x1									
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·									
									

			17				
-10.	= Reference Number	/ EPA =	Waste Code / DOT = I	UN-N	A No or Haz. Class / X =	Mulit	ple Containers / Size = Container Size
			Compatibility Group Code		Drum Identification Number		AC = Acceptance Code

THIS IS TO CERTIFY that the above listing is an accurate description of the content of this drum and that it contains no pressurized, pyrophoric, pathologic, radioactive, explosive or shock sensitive materials.

Completed By Dandler	4-24-20	
Completed By 120 200	Date	Page of
CUI 440A		

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		(Clean Harbo	rs Rep	resentative)				_	-				(Date	e)		·
Date																	REV 5/9



Waste racking Report

September 12,

Page 1

IND040888992

IN0188

6500 Industrial Highway Group Gary, IN

Manifest Dates: 01/01/00

o 09/12/00

CHI Receiving Facility: Clean Harbors - Cincinnati, OH

Mnfst No:	IN00071-C	72385	Gen Sign D	ate: 04/24/00	Date Received: 05	/10/0	0		
Drum No	Code	Qty	UOM		Disposal Site		Manifest Out	Date	M-Code
Line: 11A	Prof	ile No	: LCCRU		Manifested Qty:	3	DF	5 G	
1657611	LCCRU	16	GALS		Ensco - El Dorado, AR		AR1081116	08/18/00	M043
1657612	LCCRU	16	GALS		Ensco - El Dorado, AR		AR1081116	08/18/00	M043
1657613	LCCRU	16	GALS		Ensco - El Dorado, AR		AR1081116	08/18/00	M043
Line:, 11B	Prof	ile No	: LCCRU	<u> </u>	Manifested Qty:	1	DF	1 G	
1657614	LCCRU	5	GALS	; :	Von Roll America, Inc.		OH93977-SG26	44 08/17/00	M043



Waste rracking Report

September 12,2000 Page 2

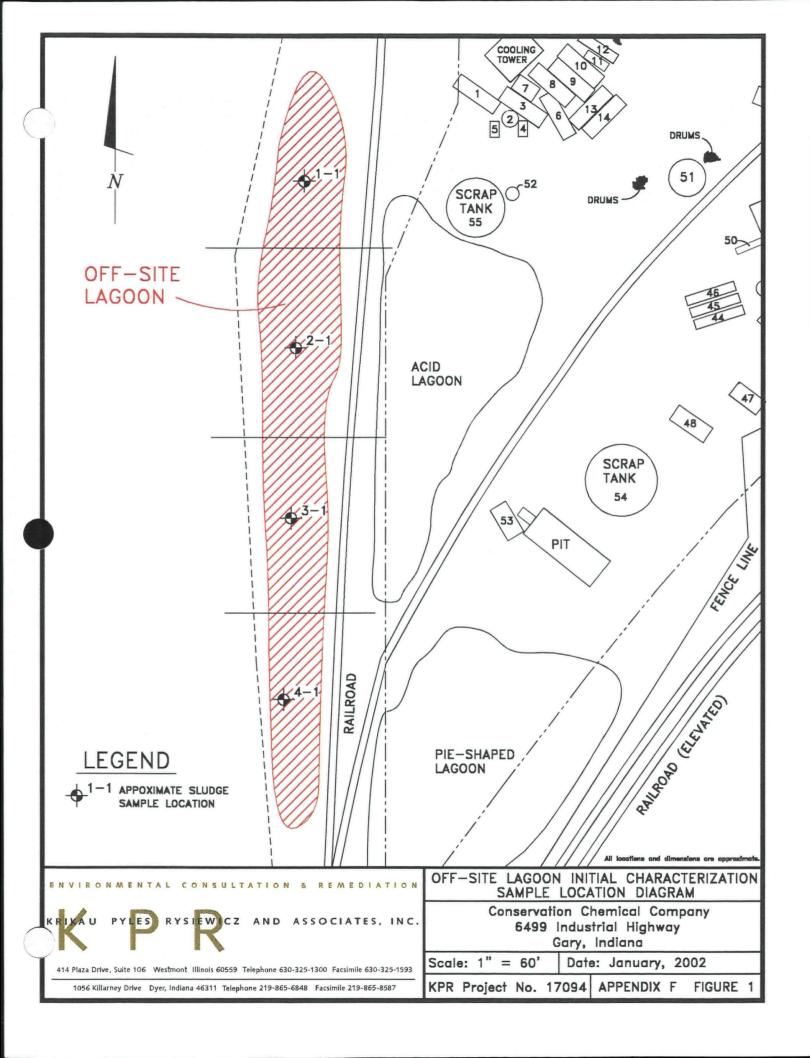
Clean Harbors - Cincinnati, OH 4879 Spring Grove Avenue Cincinnati, OH 45232 OHD000816629

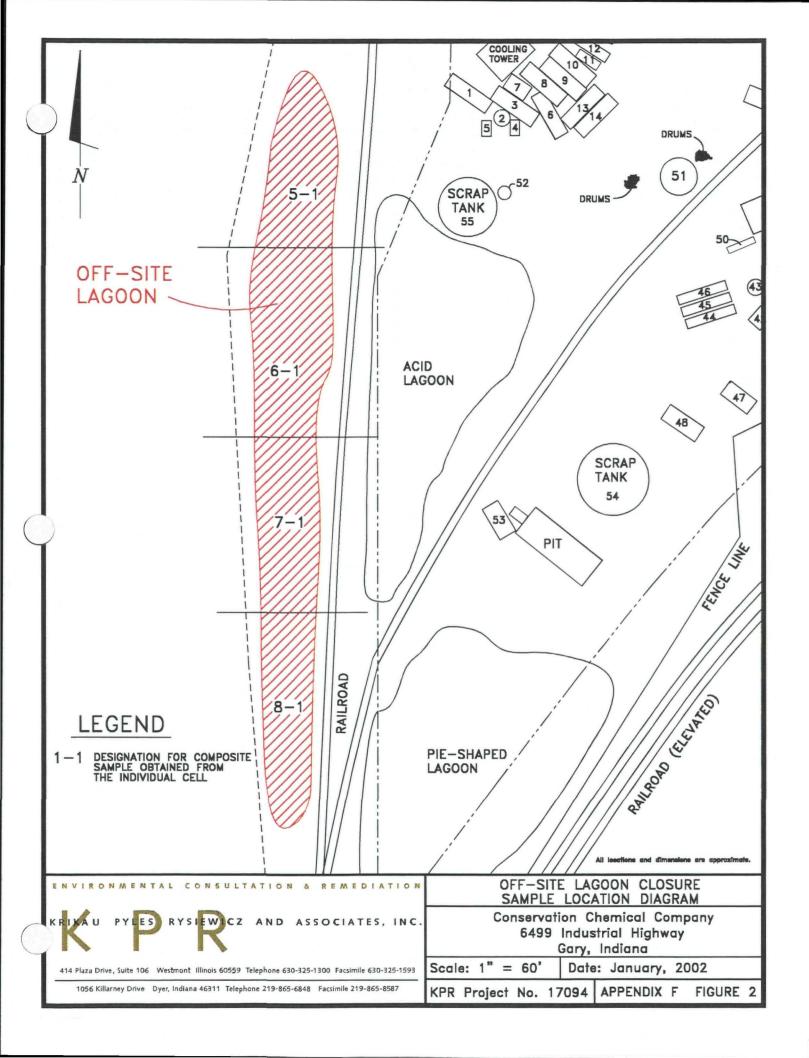
Certificate of Treatment/Disposal - Storage and Transfer

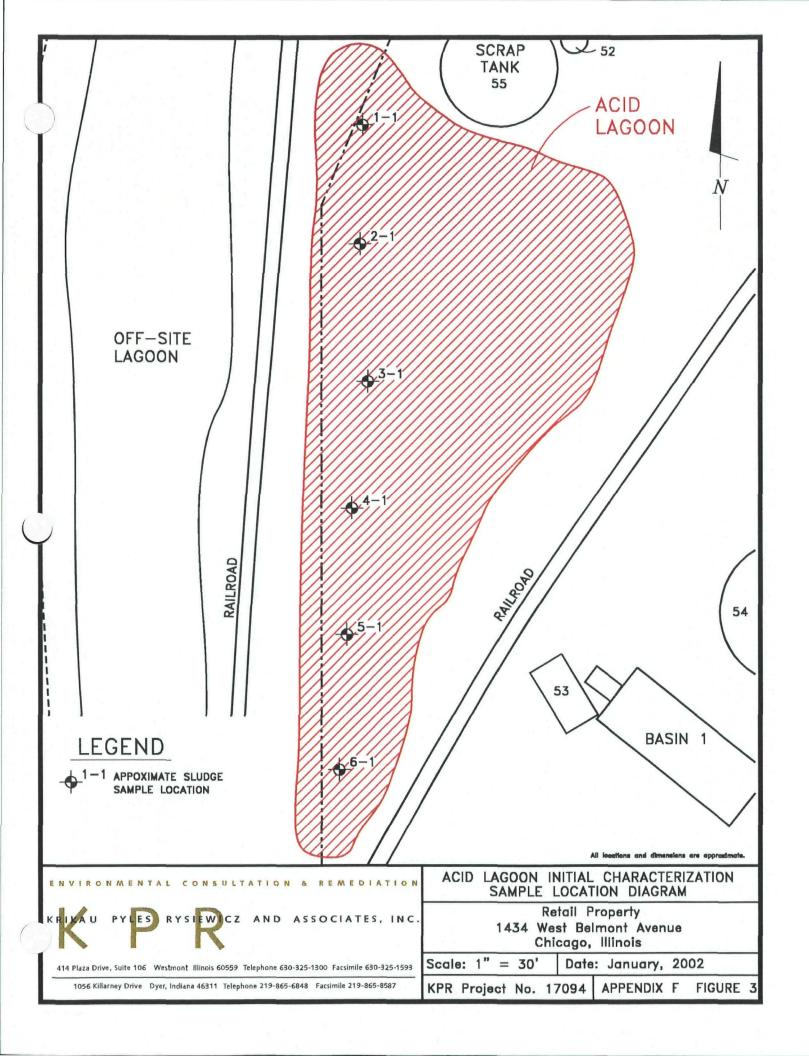
IN00071-C7238593

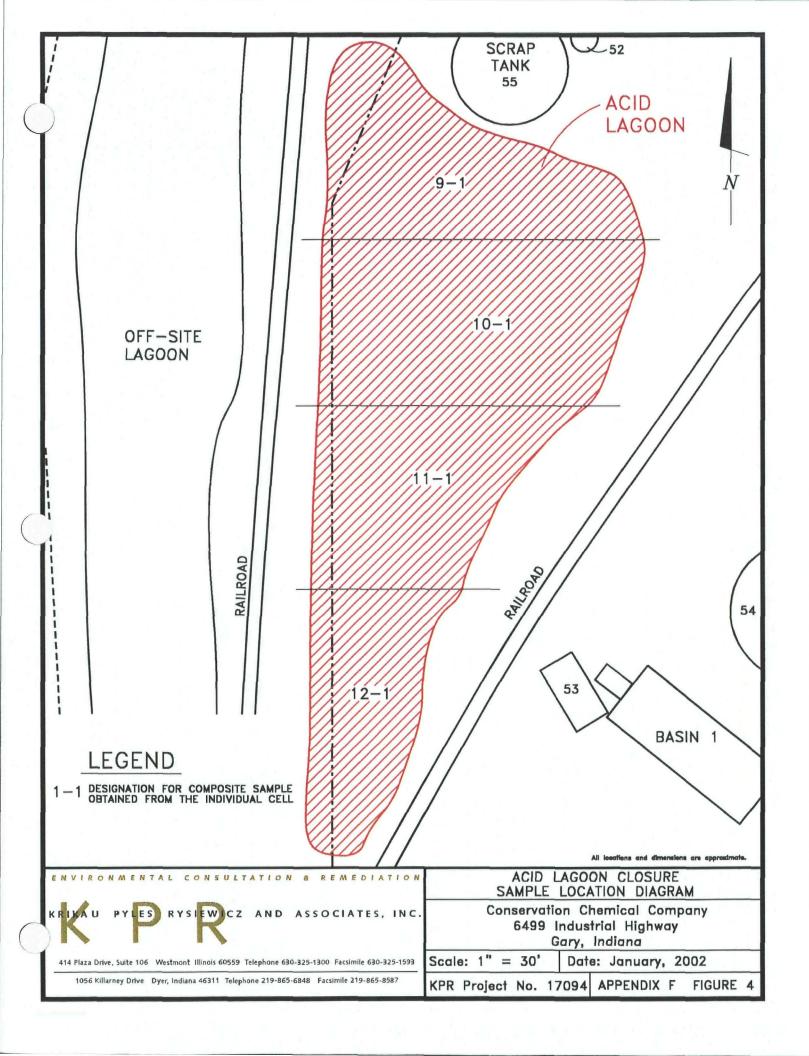
The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another lisenced facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

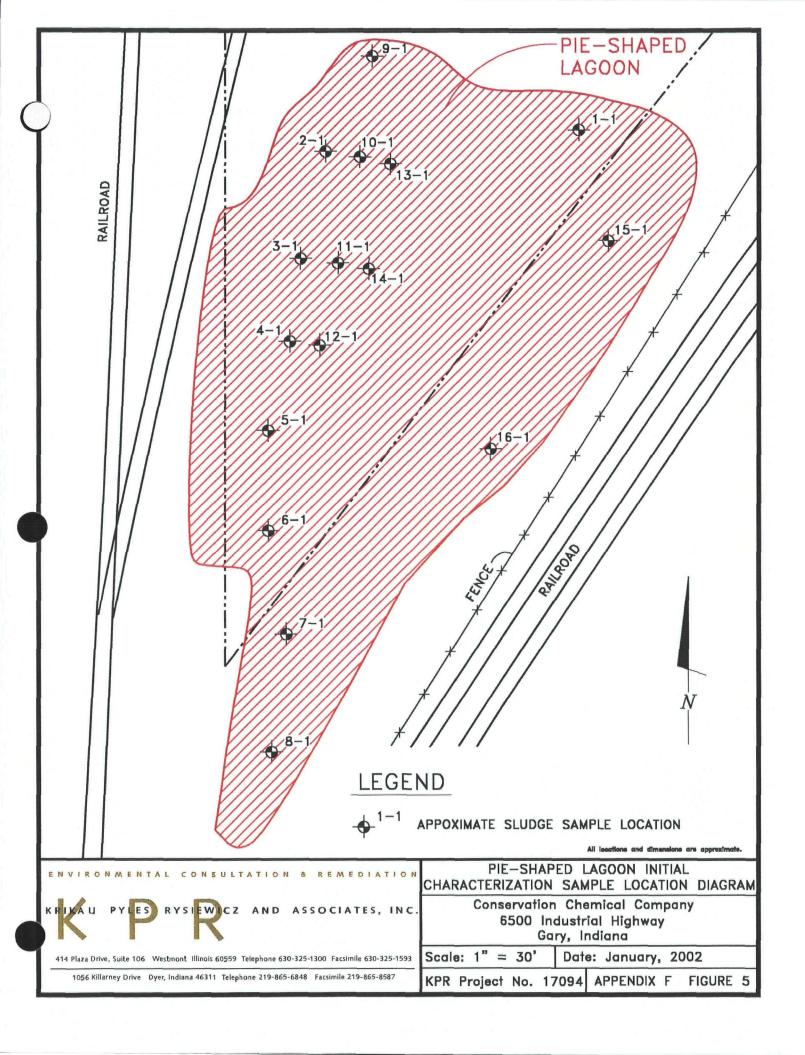
Signed:	MAN	Date://3/~
Title:	SRA	

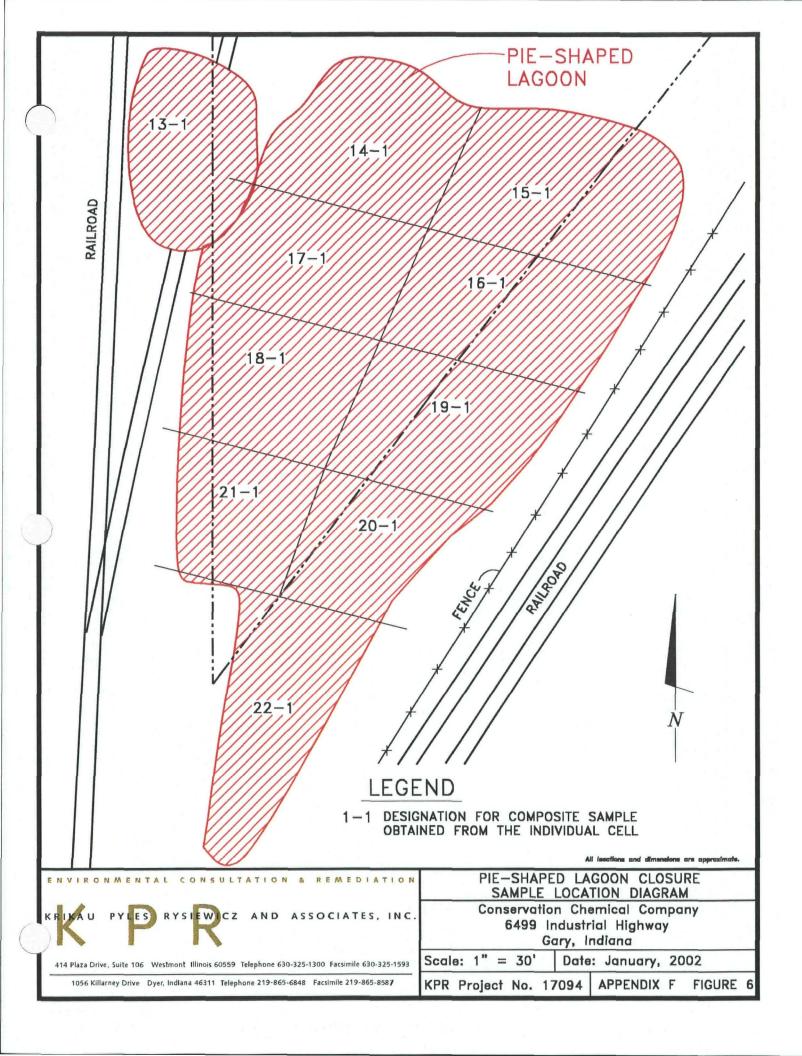














Mr. David Pyles

KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES**

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

NET Job Number: 99.06535

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: 17094/CCCI

Sample	Sample Description	Date	Date
Number		Taken	Received
532900 532901 532902 532903 532904 532905 532906 532907 532908 532909 532910 532911	CCCI/LS/Basin/7-1 CCCI/LS/Basin/8-1 CCCI/LS/Acid Basin/1-1 CCCI/LS/Acid Basin/2-1 CCCI/LS/Acid Basin/3-1	06/18/1999 06/18/1999 06/18/1999 06/18/1999 06/18/1999 06/18/1999 06/18/1999 06/18/1999 06/18/1999	06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999
532912	CCCI/LS/Acid Basin/4-1	06/18/1999	06/21/1999
532913	CCCI/LS/Acid Basin/5-1	06/18/1999	06/21/1999

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results places do not be the project referenced above has been complete that the project referenced above has been complete that such as the project referenced above has been complete that such as the project referenced above has been complete that such as the project referenced above has been complete that the project referenced above has been complete that such as the project referenced above has been complete that such as the project referenced above has been complete that the project reference above has been complete that the project reference that the project reference has been complete that the project reference that the project reference has listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

NET Job Number: 99.06535

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130 A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: 17094/CCCI

Sample	Sample Description	Date	Date
Number		Taken	Received
532914 532915 532916 532917 532918 532919	CCCI/LS/Acid Basin/6-1 CCCI/LS/Off Site Basin/1-1 CCCI/LS/Off Site Basin/2-1 CCCI/LS/Off Site Basin/3-1 CCCI/LS/Off Site Basin/4-1 CCCI/LS/Off Site Basin/4-1D	06/18/1999 06/18/1999 06/18/1999 06/18/1999 06/18/1999	06/21/1999 06/21/1999 06/21/1999 06/21/1999 06/21/1999

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary/Pearson

850 W. BARTLETT RD./ BARTLETT, IL 60103 / 630-289-3100 / FAX: 630-289-5445 / 800-378-5700



Mr. David Pyles

KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

Sample No. : 532900

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/1-1

17094/CCCI 😿

Date Taken: 06/18/1999 Time Taken: 08:50

IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batc Prep		Analytical Method
Chromium, ICP	9,800	mg/Kg	07/01/1999	2.0	jtt	1350	2567	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.10 ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	0.461	mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	4.85	mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	0.357	mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/Ļ	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204	1138	SW 7760
Prep PCBs 8082 NonAqueous	Complete		06/23/1999		jce	416		SW 3540C
PCBs 8082 NonAqueous					•			
PCB-1016	<500	ug/Kg	06/26/1999	50	tls	416	747	SW 8082
PCB-1221	<500	ug/Kg	06/26/1999	50	tl <i>s</i>	416	747	SW 8082
PCB-1232	<500	ug/Kg	06/26/1999	50	tls	416	747	SW 8082
PCB-1242	<500	ug/Kg	06/26/1999	50	tls	416	747	SW 8082
PCB-1248	1,200	ug/Kg	06/26/1999	50	tls	416	747	SW 8082
PCB-1254	610	ug/Kg	06/26/1999	50	tls	416	747	SW 8082
PCB-1260	610	ug/Kg	06/26/1999	50	tls	416	747	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out		06/26/1999	59~118	tls	416	747	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/26/1999	55-132	tls	416	747	SW 8082

ELV : Elevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106

Sample No. : 532901

Westmont, IL 60559

07/02/1999

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/2-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 08:55 IEPA Cert. No. 100221

Date Received: 06/21/1999

Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, ICP	17,000	mg/Kg	07/01/1999	2.0	jtt	1350 2567	SW 6010B
Chromium, Hexavalent	28	mg/Kg	06/30/1999	10	jrr	22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl	961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4380	SW 6010B
TCLP-Barium, ICP	<0.10 ELV	mg/L	06/29/1999	0.020	jtt	2540 4382	SW 6010B
TCLP-Cadmium, ICP	0.566	mg/L	06/29/1999	0.010	jtt	2540 4353	SW 6010B
TCLP-Chromium, ICP	39.1	mg/L	06/29/1999	0.040	jtt	2540 4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540 4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332 1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204 1138	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		06/24/1999		jce	418	SW 3540C
PCBs 8082 NonAqueous							
PCB-1016	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1221	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1232	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1242	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1248	1,000	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1254	1,100	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1260	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out		06/26/1999	59-118	tls	418 747	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/26/1999	55-132	tls	418 747	SW 8082

ELV : Elevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

Sample No.: 532902

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/3-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 09:00

IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analys	Batch Prep/I		Analytical Method	
Chromium, ICP	5,900	mg/Kg	07/01/1999	2.0	jtt	1350 2	2567	SW 6010B	
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr	2	22	SWII 3060	
TCLP Metals Extraction	Leached		06/24/1999		tpl	9	961	SW 1311	
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4	4380	SW 6010B	
TCLP-Barium, ICP	<0.020	mg/L	06/29/1999	0.020	jtt	2540 4	4382	SW 6010B	
TCLP-Cadmium, ICP	0.550	mg/L	06/29/1999	0.010	jtt	2540 4	4353	SW 6010B	
TCLP-Chromium, ICP	10.0	mg/L	06/29/1999	0.040	jtt	2540 4	4362	SW 6010B	
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540 4	1569	SW 6010B	
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332 1	1205	SW 7470A	
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4	1185	SW 6010B	
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204 1	138	SW 7760	
Prep PCBs 8082 NonAqueous	COMPLETE		06/24/1999		jce	418		SW 3540C	
PCBs 8082 NonAqueous									
PCB-1016	<2,500	ug/Kg	06/28/1999	50	tls	418 7	748	SW 8082	
PCB-1221	<10,000	ug/Kg	06/29/1999	50	tls	418 7	148	SW 8082	
PCB-1232	<2,500	ug/Kg	06/28/1999	50	tls	418 7	748	SW 8082	
PCB-1242	<2,500	ug/Kg	06/28/1999	50	tls	418 7	148	SW 8082	
PCB-1248	<2,500	ug/Kg	06/28/1999	50	tls	418 7	48	SW 8082	
PCB-1254	<10,000	ug/Kg	06/29/1999	50	tls	418 7	48	SW 8082	
PCB-1260	2,500	ug/Kg	06/28/1999	50	tls	418 7	48	SW 8082	
Surr: Tetrachloroxylene (TCX)	Diluted out		06/28/1999	59-118	tls	418 7	48	SW 8082	
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/28/1999	55-132	tls	418 7	48	SW 8082	



Mr. David Pyles KRIKAU, PYLĒS, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

Sample No. : 532903

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/3-1D

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 09:01 IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, ICP	8,400	mg/Kg	07/01/1999	2.0	jtt	1350 2567	SW 6010B
Chromium, Hexavalent	38	mg/Kg	06/30/1999	10	jrr	22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl	961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4380	SW 6010B
TCLP-Barium, ICP	<0.020	mg/L	06/29/1999	0.020	jtt	2540 4382	SW 6010B
TCLP-Cadmium, ICP	0.649	mg/L	06/29/1999	0.010	jtt	2540 4353	SW 6010B
TCLP-Chromium, ICP	8.40	mg/L	06/29/1999	0.040	jtt	2540 4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540 4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332 1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204 1138	SW 7760
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE		06/25/1999		jce	418	SW 3540C
PCB-1016	<1,000	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1221	<2,500	ug/Kg	06/30/1999	50	tls	418 748	SW 8082
PCB-1232	<1,000	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1242	<1,000	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1248	<1,000	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1254	<10,000	ug/Kg	06/30/1999	50	tls	418 748	SW 8082
PCB-1260	1,600	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out		06/29/1999	59-118	tls	418 748	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/29/1999	55-132	tls	418 748	SW 8082



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 07/02/1999

Sample No. : 532904

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/4-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 09:10 IEPA Cert. No. 100221 Date Received: 06/21/1999

Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
Chromium, ICP	10,000	mg/Kg	06/28/1999	2.0	jtt	1350	2562	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<1.0 ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	0.392	mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	2.20	mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204	1138	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		06/24/1999		jce	418		SW 3540C
PCBs 8082 NonAqueous								
PCB-1016	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1221	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1232	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1242	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1248	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1254	<10,000	ug/Kg	06/30/1999	50	tls	418	748	SW 8082
PCB-1260	3,200	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out		06/28/1999	59-118	tls	418	748	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/28/1999	55-132	tls	418	748	SW 8082

ELV : Blevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

Sample No. : 532905

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/5-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 09:25 IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, ICP	7,100	mg/Kg	06/28/1999	2.0	jtt	1350 2562	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr	22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl	961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4380	SW 6010B
TCLP-Barium, ICP	<0.020	mg/L	06/29/1999	0.020	jtt	2540 4382	SW 6010B
TCLP-Cadmium, ICP	0.413	mg/L	06/29/1999	0.010	jtt	2540 4353	SW 6010B
TCLP-Chromium, ICP	0.391	mg/L	06/29/1999	0.040	jtt	2540 4362	SW 6010B
TCLP-Lead, ICP	0.676	mg/L	06/29/1999	0.200	jtt	2540 4569	SW 6010B
TCLP-Mercury, CVAA	0.0010	mg/L	06/29/1999	0.0004	amc	1332 1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204 1138	SW 7760
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE		06/24/1999		jce	418	SW 3540C
PCB-1016	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1221	<1,000	ug/Kg	06/28/1999	50	tls	418 748	SW 8082
PCB-1232	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1242	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1248	<1,000	ug/Kg	06/28/1999	50	tls	418 748	SW 8082
PCB-1254	<500	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
PCB-1260	680	ug/Kg	06/26/1999	50	tls	418 747	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out	J. J	06/26/1999	59-118	tls	418 747	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/26/1999	55-132	tls	418 747	SW 8082



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES**

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

Sample No. : 532906

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/6-1 17094/CCCI

Date Taken: 06/18/1999 Time Taken: 10:04

IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch Prep		Analytical Method
Chromium, ICP	9,800	mg/Kg	06/28/1999	2.0	jtt	1350	2562	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.10 ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	0.236	mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	0.925	mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204	1138	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		06/24/1999		jce	418		SW 3540C
PCBs 8082 NonAqueous								
PCB-1016	<2,500	ug/Kg	06/28/1999	50	tls		748	SW 8082
PCB-1221	<2,500	ug/Kg	06/28/1999	50	tls		748	SW 8082
PCB-1232	<2,500	ug/Kg	06/28/1999	50	tls		748	SW 8082
PCB-1242	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1248	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1254	<2,500	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
PCB-1260	7,300	ug/Kg	06/28/1999	50	tls	418	748	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out		06/28/1999	59-118	tls	418	748	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/28/1999	55-132	tls	418	748	SW 8082

BLV : Elevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

Sample No.: 532907

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/7-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 09:52 IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30

WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run		Analytical Method	
Chromium, ICP	9,800		mg/Kg	06/28/1999	2.0	jtt	1350	2562	SW	6010B
Chromium, Hexavalent	<10		mg/Kg	06/30/1999	10	jrr		22	SW	II 3060
TCLP Metals Extraction	Leached			06/24/1999		tpl		961	SW	1311
TCLP-Arsenic, ICP	<0.50	ELV	mg/L	06/29/1999	0.20	jtt	2540	4380	SW	6010B
TCLP-Barium, ICP	<0.10	ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW	6010B
TCLP-Cadmium, ICP	0.668		mg/L	06/29/1999	0.010	jtt	2540	4353	SW	6010B
TCLP-Chromium, ICP	0.276		mg/L	06/29/1999	0.040	jtt	2540	4362	SW	6010B
TCLP-Lead, ICP	<0.200		mg/L	06/29/1999	0.200	jtt	2540	4569	SW	6010B
TCLP-Mercury, CVAA	<0.0004		mg/L	06/29/1999	0.0004	amc	1332	1205	SW	7470A
TCLP-Selenium, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4185	SW	6010B
TCLP-Silver, AA	<0.040		mg/L	06/28/1999	0.040	amc	1204	1138	SW	7760
Prep PCBs 8082 NonAqueous	COMPLETE			06/24/1999		jce	418		SW	3540C
PCBs 8082 NonAqueous										
PCB-1016	<250		ug/Kg	06/29/1999	50	tls	418	748	SW	8082
PCB-1221	<2,500		ug/Kg	06/30/1999	50	tls	418	748	SW	8082
PCB-1232	<250		ug/Kg	06/29/1999	50	tls	418	748	SW	8082
PCB-1242	<250		ug/Kg	06/29/1999	50	tls	418	748	SW	8082
PCB-1248	410		ug/Kg	06/29/1999	50	tls	418	748	SW	8082
PCB-1254	<250		ug/Kg	06/29/1999	50	tls	418	748	SW	8082
PCB-1260	590		ug/Kg	06/29/1999	50	tls	418	748	SW	8082
Surr: Tetrachloroxylene (TCX)	Diluted ou	t		06/29/1999	59-118	tls	418	748	SW	8082
Surr: Decachlorobiphenyl (DCB)	Diluted ou	t		06/29/1999	55-132	tls	418	748	SW	8082

ELV : Elevated reporting limits due to matrix interference.

PCB analysis performed at a dilution due to matrix interference.

16,



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

Sample No.: 532908

Job No.: 99.06535

Sample Description:

CCCI/LS/Basin/8-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 09:30 IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batc Prep		Analytical Method
Chromium, ICP	2,900		mg/Kg	06/28/1999	2.0	jtt	1350	2562	SW 6010B
Chromium, Hexavalent	<10		mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached			06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.50	BLV	mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.020		mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	0.250		mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	1.24		mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	0.231		mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004		mg/L [™]	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040		mg/L	06/28/1999	0.040	amc	1204	1138	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE			06/24/1999		jce	418		SW 3,540C
PCBs 8082 NonAqueous									
PCB-1016	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1221	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1232	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1242	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1248	380		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1254	510		ug/Kg	06/30/1999	50	tls	418	748	SW 8082
PCB-1260	340		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
Surr: Tetrachloroxylene (TCX)	85.0		ł	06/29/1999	59-118	tls	418	748	SW 8082
Surr: Decachlorobiphenyl (DCB)	53.0	SR	ŧ	06/29/1999	55-132	tls	418	748	SW 8082

ELV : Blevated reporting limits due to matrix interference.

PCB analysis performed at a dilution due to matrix interference.

SR : Surrogate recovery was outside of acceptance limits due to matrix interference.



Mr. David Pyles

KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

Surr: Tetrachloroxylene (TCX)

Surr: Decachlorobiphenyl (DCB)

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

Sample No. :

532909

Job No.: 99.06535

Sample Description:

CCCI/LS/Acid Basin/1-1

17094/CCCI

06/18/1999 Date Taken: Time Taken:

10:55

IEPA Cert. No. 100221

06/21/1999 Date Received:

Time Received: 14:30 WDNR Cert. No. 999447130

418 747

418 747

SW 8082

SW 8082

Parameter Results Units Date of Method Analyst Batch No. Analytical Analysis POL Prep/Run Method Chromium, ICP 160 mg/Kg 06/28/1999 2.0 jtt 1350 2562 SW 6010B Chromium, Hexavalent <10 mg/Kg 06/30/1999 jrr 22 SWII 3060 Leached 06/24/1999 SW 1311 TCLP Metals Extraction tpl 961 mg/L <0.20 06/29/1999 jtt TCLP-Arsenic, ICP 0.20 2540 4380 SW 6010B jtt TCLP-Barium, ICP 0.227 mg/L 06/29/1999 0,020 2540 4382 SW 6010B jtt 0.014 2540 4353 SW 6010B TCLP-Cadmium, ICP mg/L 06/29/1999 0.010 jtt TCLP-Chromium, ICP mg/L <0.040 06/29/1999 0.040 2540 4362 SW 6010B jtt <0.200 06/29/1999 0.200 2540 4569 SW 6010B TCLP-Lead, ICP mg/L 06/29/1999 0.0004 1332 1205 SW 7470A TCLP-Mercury, CVAA <0.0004 mg/L amc TCLP-Selenium, ICP <0.20 mg/L 06/29/1999 0.20 2540 4185 SW 6010B jtt <0.040 TCLP-Silver, AA mg/L 06/28/1999 0.040 amc 1204 1138 SW 7760 Prep PCBs 8082 NonAqueous COMPLETE 06/24/1999 SW 3540C jce 418 PCBs 8082 NonAqueous PCB-1016 <500 ug/Kg 06/26/1999 50 tls 418 747 SW 8082 PCB-1221 <500 ug/Kg 06/26/1999 50 tls 418 747 SW 8082 PCB-1232 <500 ug/Kg 06/26/1999 50 tls SW 8082 418 747 PCB-1242 <500 ug/Kg 06/26/1999 50 tls 418 747 SW 8082 <500 06/26/1999 50 418 747 PCB-1248 ug/Kg tls SW 8082 <500 PCB-1254 ug/Kg 06/26/1999 50 SW 8082 418 747 tls <500 06/26/1999 50 PCB-1260 ug/Kg tls 418 747 SW 8082

PCB analysis performed at a dilution due to matrix interference.

Diluted out

Diluted out

06/26/1999 59-118 tls

06/26/1999 55-132 tls



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Sample No. : 532910

07/02/1999

Westmont, IL 60559

Job No.: 99.06535

Sample Description:

CCCI/LS/Acid Basin/2-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 10:57

IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run		Analytical Method	
Chromium, ICP	2,500	mg/Kg	06/28/1999	2.0	jtt	1350	2562	SW	6010B	
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr		22	SW	II 3060	
TCLP Metals Extraction	Leached		06/24/1999		tpl		961	SW	1311	
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4380	SW	6010B	
TCLP-Barium, ICP	0.186	mg/L	06/29/1999	0.020	jtt	2540	4382	SW	6010B	
TCLP-Cadmium, ICP	0.050	mg/L	06/29/1999	0.010	jtt	2540	4353	SW	6010B	
TCLP-Chromium, ICP	0.231	mg/L	06/29/1999	0.040	jtt	2540	4362	SW	6010B	
TCLP-Lead, ICP	0.236	mg/L	06/29/1999	0.200	jtt	2540	4569	SW	6010B	
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332	1205	SW	7470A	
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4185	SW	6010B	
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204	1138	SW	7760	
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE		06/24/1999		jce	418		SW	3540C	
PCB-1016	<500	ug/Kg	06/29/1999	50	tls	418	748	SW	8082	
PCB-1221	<500	uq/Kq	06/29/1999	50	tls	418	748	SW	8082	
PCB-1232	<500	ug/Kg	06/29/1999	50	tls	418	748	SW	8082	
PCB-1242	<500	ug/Kg	06/29/1999	50	tls	418	748	SW	8082	
PCB-1248	820	ug/Kg	06/29/1999	50	tls	418	748	SW	8082	
PCB-1254	1,400	ug/Kg	06/29/1999	50	tls	418	748	SW	8082	
PCB-1260	<500	ug/Kg	06/29/1999	50	tls	418	748	SW	8082	
Surr: Tetrachloroxylene (TCX)	Diluted out	_	06/29/1999	59-118	tls	418	748	SW	8082	
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/29/1999	55-132	tls	418	748	SW	8082	



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

Sample No. : 532911

Job No.: 99.06535

Sample Description:

CCCI/LS/Acid Basin/3-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 11:00 IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
Chromium, ICP	10,000	mg/Kg	06/29/1999	2.0	jtt	1350	2563	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.10 ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	<0.010	mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	0.349	mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204	1138	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		06/25/1999		jce	418		SW 3540C
PCBs 8082 NonAqueous								
PCB-1016	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1221	<5,000	ug/Kg	06/30/1999	50	tls	418	748	SW 8082
PCB-1232	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1242	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1248	500	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1254	300	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1260	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
Surr: Tetrachloroxylene (TCX)	Diluted out		06/29/1999	59-118	tls	418	748	SW 8082
Surr: Decachlorobiphenyl (DCB)	Diluted out		06/29/1999	55-132	tls	418	748	SW 8082

ELV : Elevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & **ASSOCIATES**

Sample No.: 532912

07/02/1999

414 Plaza Drive Ste. 106

Westmont, IL 60559

Job No.: 99.06535

Sample Description: CCCI/LS/Acid Basin/4-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 11:04

IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, ICP	6,500	mg/Kg	06/29/1999	2.0	jtt	1350 2563	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr	22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl	961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4380	SW 6010B
TCLP-Barium, ICP	<0.020	mg/L	06/29/1999	0.020	jtt	2540 4382	SW 6010B
TCLP-Cadmium, ICP	<0.050 ELV	mg/L	06/29/1999	0.010	jtt	2540 4353	SW 6010B
TCLP-Chromium, ICP	<0.040	mg/L	06/29/1999	0.040	jtt	2540 4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540 4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332 1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L'े	06/29/1999	0.20	jtt	2540 4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204 1138	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		06/25/1999		jce	418	SW 3540C
PCBs 8082 NonAqueous							
PCB-1016	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1221	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1232	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1242	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1248	1,100	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1254	690	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1260	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
Surr: Tetrachloroxylene (TCX)	76.0	*	06/29/1999	59-118	tls	418 748	SW 8082
Surr: Decachlorobiphenyl (DCB)	55.0	*	06/29/1999	55-132	tls	418 748	SW 8082

ELV : Elevated reporting limits due to matrix interference.



Mr. David Pyles

KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

Sample No. : 532913

Job No.: 99.06535

Sample Description:

CCCI/LS/Acid Basin/5-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 11:09

IEPA Cert. No. 100221

Date Received: 06/21/1999

Time Received: 14:30

WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
Chromium, ICP	5,700		mg/Kg	06/29/1999	2.0	jtt	1350	2563	SW 6010B
Chromium, Hexavalent	<10		mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached			06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.10	ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	<0.10	ELV	mg/L	06/29/1999	0.010	3tt	2540	4353	SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	<0.200		mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004		mg/L	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040		mg/L	06/28/1999	0.040	amc	1204	1138	SW 7760
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE			06/25/1999		jce	418		SW 3540C
PCB-1016	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1221	<500		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1232	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1242	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1248	1,100		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1254	1,400		ug/Kg	06/30/1999	50		418	748	SW 8082
PCB-1260	270		ug/Kg	06/29/1999	50		418	748	SW 8082
Surr: Tetrachloroxylene (TCX)	99.0		**************************************	06/29/1999	59-118		418	748	SW 8082
Surr: Decachlorobiphenyl (DCB)	71.0		*	06/29/1999	55-132		418	748	SW 8082

ELV : Blevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 532914

Job No.: 99.06535

07/02/1999

Sample Description: CCCI/LS/Acid Basin/6-1

17094/CCCI

Date Taken: 06/18/1999
Time Taken: 11:11
Time Received: 06/21/1999
Time Taken: 11:11
Time Received: 14:30
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
Chromium, ICP	9,200		mg/Kg	06/29/1999	2.0	jtt	1350	2563	SW 6010B
Chromium, Hexavalent	<10		mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached			06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.10	ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	<0.010		mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	0.646		mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	<0.200		mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004		mg/L	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040		mg/L	06/28/1999	0.040	amc	1204	1138	SW 7760
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE			06/25/1999		jce	418		SW 3540C
PCB-1016	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1221	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1232	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1242	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1248	270		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1254	<250		ug/Kg	06/29/1999	50		418	748	SW 8082
PCB-1260	<250		ug/Kg ug/Kg	06/29/1999	50		418	748	SW 8082
Surr: Tetrachloroxylene (TCX)	90.0		tg/kg	06/29/1999	59-118		418	748	SW 8082
Surr: Decachlorobiphenyl (DCB)	67.0		*	06/29/1999	55-132		418	748	SW 8082

 ${\tt ELV}$: Elevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLĒS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

Sample No. : 532915

Job No.: 99.06535

Sample Description:

CCCI/LS/Off Site Basin/1-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 10:45 IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, ICP	14,000	mg/Kg	07/01/1999	2.0	jtt	1350 2567	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr	22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl	961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4380	SW 6010B
TCLP-Barium, ICP	<0.10 ELV	mg/L	06/29/1999	0.020	jtt	2540 4382	SW 6010B
TCLP-Cadmium, ICP	0.822	mg/L	06/29/1999	0.010	jtt	2540 4353	SW 6010B
TCLP-Chromium, ICP	0.336	mg/L	06/29/1999	0.040	jtt	2540 4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540 4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332 1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/28/1999	0.040	amc	1204 1138	SW 7760
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE		06/25/1999		jce	418	SW 3540C
PCB-1016	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1221	<2,500	ug/Kg	06/30/1999	50	tls	418 748	SW 8082
PCB-1232	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1242	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1248	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1254	260	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1260	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
Surr: Tetrachloroxylene (TCX)	95.0	*	06/29/1999	59-118	tls	418 748	SW 8082
Surr: Decachlorobiphenyl (DCB)	56.0	*	06/29/1999	55-132	tls	418 748	SW 8082

ELV : Elevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Sample No. : 532916

07/02/1999

414 Plaza Drive Ste. 106 Westmont, IL 60559

Job No.: 99.06535

Sample Description: CCCI/LS/Off Site Basin/2-1

17094/CCCI

 Date Taken: 06/18/1999
 Date Received: 06/21/1999

 Time Taken: 10:50
 Time Received: 14:30

 IEPA Cert. No. 100221
 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst		h No. /Run		lytical Method
Chromium, ICP	5,600		mg/Kg	06/25/1999	2.0	jtt	1351	2560	SW	6010B
Chromium, Hexavalent	<10		mg/Kg	06/30/1999	10	jrr		22	SWI	I 3060
TCLP Metals Extraction	Leached			06/24/1999		tpl		961	SW	1311
TCLP-Arsenic, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4380	SW	6010B
TCLP-Barium, ICP	<0.10	ELV	mg/L	06/29/1999	0.020	jtt	2540	4382	SW	6010B
TCLP-Cadmium, ICP	0.578		mg/L	06/29/1999	0.010	jtt	2540	4353	SW	6010B
TCLP-Chromium, ICP	0.603		mg/L	06/29/1999	0.040	jtt	2540	4362	SW	6010B
TCLP-Lead, ICP	<0.200		mg/L	06/29/1999	0.200	jtt	2540	4569	SW	6010B
TCLP-Mercury, CVAA	<0.0004		mg/L'_{\downarrow}	06/29/1999	0.0004	amc	1332	1205	SW '	7470A
TCLP-Selenium, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4185	SW (6010B
TCLP-Silver, AA	<0.040		mg/L	06/28/1999	0.040	amc	1204	1138	SW '	7760
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE			06/25/1999		jce	418		SW 3	3540C
PCB-1016	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8	3082
PCB-1221	<1,000		ug/Kg	06/30/1999	50	tls	418	748		3082
PCB-1232	<250		ug/Kg	06/29/1999	50	tls	418	748		3082
PCB-1242	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8	3082
PCB-1248	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8	3082
PCB-1254	610		ug/Kg	06/29/1999	50	tls	418	748	SW 8	3082
PCB-1260	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8	1082
Surr: Tetrachloroxylene (TCX)	92.0		*	06/29/1999	59-118	tls	418	748	SW 8	1082
Surr: Decachlorobiphenyl (DCB)	71.0		* /2i	06/29/1999 06	55-132	tls	418	748	SW 8	1082

ELV : Blevated reporting limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/02/1999

Sample No.: 532917

Job No.: 99.06535

Sample Description:

CCCI/LS/Off Site Basin/3-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 10:58 IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No Prep/Run	-
Chromium, ICP	1,500	mg/Kg	06/24/1999	2.0	jtt	1351 255	1 SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr	22	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl	961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 438	SW 6010B
TCLP-Barium, ICP	<0.10 EI	.V mg/L	06/29/1999	0.020	jtt	2540 438	2 SW 6010B
TCLP-Cadmium, ICP	0.383	mg/L	,06/29/1999	0.010	jtt	2540 435	S SW 6010B
TCLP-Chromium, ICP	0.301	mg/L	06/29/1999	0.040	jtt	2540 4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540 4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004	mg/L	06/29/1999	0.0004	amc	1332 1209	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540 4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/29/1999	0.040	amc	1206 1139	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		06/25/1999		jce	418	SW 3540C
PCBs 8082 NonAqueous							
PCB-1016	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1221	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1232	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1242	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1248	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1254	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
PCB-1260	<250	ug/Kg	06/29/1999	50	tls	418 748	SW 8082
Surr: Tetrachloroxylene (TCX)	94.0	*	06/29/1999	59-118	tls	418 748	SW 8082
Surr: Decachlorobiphenyl (DCB)	66.0	*	06/29/1999	55-132	tls	418 748	SW 8082

ELV : Elevated reporting limits due to matrix interference.



Mr. David Pyles

KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

Sample No. : 532918

Job No.: 99.06535

Sample Description:

CCCI/LS/Off Site Basin/4-1

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 11:03

IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30

WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
Chromium, ICP	9,500		mg/Kg	06/25/1999	2.0	jtt	1351	2560	SW 6010B
Chromium, Hexavalent	<10		mg/Kg	06/30/1999	10	jrr		22	SWII 3060
TCLP Metals Extraction	Leached			06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.020		mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	0.269		mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	2.11		mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	<0.200		mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	<0.0004		mg/L	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20		mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040		mg/L	06/29/1999	0.040	amc	1206	1139	SW 7760
Prep PCBs 8082 NonAqueous PCBs 8082 NonAqueous	COMPLETE		٠	06/25/1999		jce	418		SW 3540C
PCB-1016	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1221	<250		ug/Kg	06/29/1999	50		418	748	SW 8082
PCB-1232	<250		ug/Kg	06/29/1999	50			748	SW 8082
PCB-1242	<250		ug/Kg	06/29/1999	50			748	SW 8082
PCB-1248	<250		ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1254	320		ug/Kg	06/29/1999	50			748	SW 8082
PCB-1260	<250		ug/Kg	06/29/1999	50			748	SW 8082
Surr: Tetrachloroxylene (TCX)	126.0	SR	*	06/29/1999	59-118			748	SW 8082
Surr: Decachlorobiphenyl (DCB)	63.0		*	06/29/1999	55-132			748	SW 8082

PCB analysis performed at a dilution due to matrix interference.

SR : Surrogate recovery was outside of acceptance limits due to matrix interference.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES**

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/02/1999

Sample No. : 532919

Job No.: 99.06535

Sample Description:

CCCI/LS/Off Site Basin/4-1D

17094/CCCI

Date Taken: 06/18/1999 Time Taken: 11:03

IEPA Cert. No. 100221

Date Received: 06/21/1999 Time Received: 14:30

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
Chromium, ICP	1,700	mg/Kg	06/24/1999	2.0	jtt	1351	2554	SW 6010B
Chromium, Hexavalent	<10	mg/Kg	06/30/1999	10	jrr		22`	SWII 3060
TCLP Metals Extraction	Leached		06/24/1999		tpl		961	SW 1311
TCLP-Arsenic, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4380	SW 6010B
TCLP-Barium, ICP	<0.020	mg/L	06/29/1999	0.020	jtt	2540	4382	SW 6010B
TCLP-Cadmium, ICP	0.320	mg/L	06/29/1999	0.010	jtt	2540	4353	SW 6010B
TCLP-Chromium, ICP	1.30	mg/L	06/29/1999	0.040	jtt	2540	4362	SW 6010B
TCLP-Lead, ICP	<0.200	mg/L	06/29/1999	0.200	jtt	2540	4569	SW 6010B
TCLP-Mercury, CVAA	0.0006	mg/L	06/29/1999	0.0004	amc	1332	1205	SW 7470A
TCLP-Selenium, ICP	<0.20	mg/L	06/29/1999	0.20	jtt	2540	4185	SW 6010B
TCLP-Silver, AA	<0.040	mg/L	06/29/1999	0.040	amc	1206	1139	SW 7760
Prep PCBs 8082 NonAqueous	COMPLETE		06/25/1999		jce	416		SW 3540C
PCBs 8082 NonAqueous								
PCB-1016	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1221	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1232	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1242	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1248	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1254	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
PCB-1260	<250	ug/Kg	06/29/1999	50	tls	418	748	SW 8082
Surr: Tetrachloroxylene (TCX)	104.0	*	06/29/1999	59-118	tls	418	748	SW 8082
Surr: Decachlorobiphenyl (DCB)	70.0	*	06/29/1999	55-132	tls	418	748	SW 8082



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

07/02/1999

NET Job Number: 99.06535

			. ¥	
	Run	CCV	•	
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
Chromium, ICP	2554	2.00	1.97	98.5
Chromium, ICP	2554	2.00	2.00	100.0
•	2560	2.00	2.00	105.5
Chromium, ICP	2562	2.00	2.11	103.5
Chromium, ICP	2562	2.00	1.97	98.5
Chronium, ICP	2567	2.00	2.04	102.0
Chromium, ICP	2367	0.25	0.251	102.0
Chromium, Hexavalent				
TCLP-Arsenic, ICP	4380	2.00	2.06	103.0
TCLP-Barium, ICP	4382	2.00	1.98	99.0
TCLP-Cadmium, ICP	4353	1.00	0.986	98.6
TCLP-Chromium, ICP	4362	2.00	1.97	98.5
TCLP-Lead, ICP	4569	2.00	1.97	98.5
TCLP-Mercury, CVAA	1205	0.0025	0.00250	100.0
TCLP-Selenium, ICP	4185	2.00	1.95	97.5
TCLP-Silver, AA	1138	0.500	0.488	97.6
TCLP-Silver, AA	1139	0.500	0.463	92.6
PCBs 8082 NonAqueous				
PCB-1016	747	500	538	107.6
PCB-1260	747	500	521	104.2
PCBs 8082 NonAqueous				
PCB-1016	747	500 ⁷	515	103.0
PCB-1260	747	500	491	98.2
PCBs 8082 NonAqueous		17		
PCB-1016	747	500	518	103.6
PCB-1260	747	500	497	99.4
PCBs 8082 NonAqueous				
PCB-1016	748	500	510	102.0
PCB-1260	748	500	506	101.2
PCBs 8082 NonAqueous		,		
PCB-1016	748	500	551	110.2
PCB-1260	748	500	534	106.8
PCBs 8082 NonAqueous				
PCB-1016	748	500	544	108.8
PCB-1260	748	500	519	103.8
				

CCV - Continuing Calibration Verification



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

, CS

07/02/1999

NET Job Number: 99.06535

		•		
	Run	CCA		
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
PCBs 8082 NonAqueous				
PCB-1016	748	500	536	107.2
PCB-1260	748	500	521	104.2
PCBs 8082 NonAqueous				
PCB-1016	748	500	518	103.6
PCB-1260	748	500	496	99.2
PCBs 8082 NonAqueous				
PCB-1016	748	500	523	104.6
PCB-1260	748	500	506	101.2

CCV - Continuing Calibration Verification



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

07/02/1999

NET Job Number: 99.06535

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Chromium, ICP	1351	2554	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1350	2555	<2.0	mg/Kg	2.0	SW 6010B
Chromium, Hexavalent		22	<10	mg/Kg	10	SWII 3060
TCLP-Arsenic, ICP	2540	4380	<0.20	mg/L	0.20	SW 6010B
TCLP-Barium, ICP	2540	4382	<0.020	mg/L	0.020	SW 6010B
TCLP-Cadmium, ICP	2540	4353	<0.010	mg/L	0.010	SW 6010B
TCLP-Chromium, ICP	2540	4362	<0.040	mg/L	0.040	SW 6010B
TCLP-Lead, ICP	2540	4569	<0.200	mg/L	0.200	SW 6010B
TCLP-Mercury, CVAA	1332	1205	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Mercury, CVAA	1332	1205	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Selenium, ICP	2540	4185	<0.20	mg/L	0.20	SW 6010B
TCLP-Silver, AA	1204	1138	<0.040	mg/L	0.040	SW 7760
TCLP-Silver, AA	1206	1139	<0.040	mg/L	0.040	SW 7760
PCBs 8082 NonAqueous						SW 8082
PCB-1016	416	747	<50	ug/Kg	50	SW 8082
PCB-1221	416	747	<50	ug/Kg	50	SW 8082
PCB-1232	416	747	<50	ug/Kg	50	SW 8082
PCB-1242	416	747	<50	ug/Kg	50	SW 8082
PCB-1248	416	747	<50	ug/Kg	50	SW 8082
PCB-1254	416	747	<50	ug/Kg	50	SW 8082
PCB-1260	416	747	<50	ug/Kg	50	SW 8082
Surr: Tetrachloroxylene (TCX)	416	747	91.0	*	59-118	SW 8082
Surr: Decachlorobiphenyl (DCB)	416	747	93.0	*	55-132	SW 8082
PCBs 8082 NonAqueous						SW 8082
PCB-1016	418	747	<50	uģ/Kg	50	SW 8082
PCB-1221	418	747	<50	ug/Kg	50	SW 8082
PCB-1232	418	747	<50	ug/Kg	50	SW 8082
PCB-1242	418	747	< 50	ug/Kg	50	SW 8082
PCB-1248	418	747	<50	ug/Kg	50	SW 8082

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

07/02/1999

NET Job Number: 99.06535

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Maryce	Number	Number	Resules	OMICS	Dimit	nechod
PCB-1254	418	747	<50	ug/Kg	50	SW 8082
PCB-1260	418	747	<50	ug/Kg	50	SW 8082
Surr: Tetrachloroxylene (TCX)	418	747	92.0	*	59-118	SW 8082
Surr: Decachlorobiphenyl (DCB)	418	747	94.0	*	55-132	SW 8082
PCBs 8082 NonAqueous						SW 8082
PCB-1016	418	748	<50 ,.	ug/Kg	50	SW 8082
PCB-1221	418	748	<50	ug/Kg	50	SW 8082
PCB-1232	418	748	<50	ug/Kg	50	SW 8082
PCB-1242	418	748	<50	ug/Kg	50	SW 8082
PCB-1248	418	748	<50	ug/Kg	50	SW 8082
PCB-1254	418	748	<50	ug/Kg	50	SW 8082
PCB-1260	418	748	<50	ug/Kg	50	SW 8082
Surr: Tetrachloroxylene (TCX)	418	748	90.0	*	59-118	SW 8082
Surr: Decachlorobiphenyl (DCB)	418	748	90.0	*	55-132	SW 8082

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

. 177

07/02/1999

NET Job Number: 99.06535

		<i>₹.</i> ;						
	Prep	Run						
	Batch	Batch	True	Conc.	LCS			
Analyte	Number	Number	Conc.	Found	* Recovery			
Chromium, ICP	1351	2554	50.0	50.2	100.4			
Chromium, ICP	1350	2555	50.0	53.0	106.0			
Chromium, Hexavalent		22	. 2.5	2.60	104.0			
TCLP-Arsenic, ICP	2540	4380	1.00	1.04	104.0			
TCLP-Barium, ICP	2540	4382	1.00	1.01	101.0			
TCLP-Cadmium, ICP	2540	4353	0.500	0.495	99.0			
TCLP-Chromium, ICP	2540	4362	1.00	1.01	101.0			
TCLP-Lead, ICP	2540	4569	1.00	1.00	100.0			
TCLP-Mercury, CVAA	1332	1205	0.0025	0.00238	95.2			
TCLP-Mercury, CVAA	1332	1205	0.0025	0.00238	95.2			
TCLP-Selenium, ICP	2540	4185	1.00	1.01	101.0			
TCLP-Silver, AA	1204	1138	1.00	1.05	105.0			
TCLP-Silver, AA	1206	1139	1.00	1.07	107.0			
PCBs 8082 NonAqueous								
PCB-1016	416	747	166.7	171.1	102.6			
PCB-1260	416	747	166.7	163.1	97.8			
Surr: Tetrachloroxylene (TCX)	416	747	ا 100	89	89.0			
Surr: Decachlorobiphenyl (DCB)	416	747	100	91	91.0			
PCBs 8082 NonAqueous			•					
PCB-1016	418	747	166.7	171.9	103.1			
PCB-1260	418	747	166.7	160.7	96.4			
Surr: Tetrachloroxylene (TCX)	418	747	100	92	92.0			
Surr: Decachlorobiphenyl (DCB)	418	747	100	90	90.0			
PCBs 8082 NonAqueous								
PCB-1016	418	748	166.7	140.2	84.1			
PCB-1260	418	748	166.7	140.5	84.3			
Surr: Tetrachloroxylene (TCX)	418	748	100	75	75.0			
Surr: Decachlorobiphenyl (DCB)	418	748	100	76	76.0			



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

07/02/1999

NET Job Number: 99.06535

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Chromium, ICP	1350	2567	Diluted	out								
Chromium, Hexavalent		22	2.48	<10	2.50	mg/Kg	99.2	2.38	2.50	mg/Kg	95.2	4.1
TCLP-Arsenic, ICP	2540	4380	0.915	<0.20	1.00	mg/L	91.5	0.937	1.00	mg/L	93.7	2.4
TCLP-Barium, ICP	2540	4382	0.893	<0.10	1.00	mg/L	89.3	0.900	1.00	mg/L	90.0	0.8
TCLP-Cadmium, ICP	2540	4353	0.438	<0.010	0.500	mg/L	87.6	0.443	0.500	mg/L	88.6	1.1
TCLP-Chromium, ICP	2540	4362	1.56	0.646	1.00	mg/L	91.4	1.56	1.00	mg/L	91.4	0.0
TCLP-Lead, ICP	2540	4569	0.974	<0.200	1.00	mg/L	97.4	0.959	1.00	mg/L	95.9	1.6
TCLP-Mercury, CVAA	1332	1205	0.00527	<0.0004	0.005	mg/L	105.4	0.0053	0.005	mg/L	106.2	0.8
TCLP-Mercury, CVAA	1332	1205	0.00520	<0.0004	0.005	mg/L	104.0	0.0052	0.005	mg/L	105.4	1.3
TCLP-Selenium, ICP	2540	4185	1.06	<0.20	1.00	mg/L	106.0	1.09	1.00	mg/L	109.0	2.8
TCLP-Silver, AA	1204	1138	1.05	<0.040	1.0	mg/L	105.0	1.00	1.0	mg/L	100.0	4.9
TCLP-Silver, AA	1206	1139	1.02	<0.040	1.0	mg/L	102.0	1.01	1.0	mg/L	101.0	1.0
PCBs 8082 NonAqueous					i No.							
PCB-1016	416	747	Diluted	out								
PCB-1260	416	747	Diluted	out								
PCBs 8082 NonAqueous	•											
PCB-1016	418	747	Diluted	out								
PCB-1260	418	747	Diluted	out								

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

	·
<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
*	: Percent; To convert ppm to %, divide the result by 10,000.
•	To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Referen	ices
(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
(5)	Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Methods for the Determination of Metals in Environmental Samples", Supplement I

850 W. BARTLETT RD. BARTLETT: IL 60103 / 630-289-3100 / FAX: 630-289-5445 / 800-378-5700



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

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Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 03/03/2000

Job Number: 00.01703

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: 17094

Sample	Sample Description	Date	Date
Number		Taken	Received
568236	CCCI/LS/Off-Site Closure/5-1	02/23/2000	02/24/2000
568237	CCCI/LS/Off-Site Closure/5-1D	02/23/2000	02/24/2000
568238	CCCI/LS/Off-Site Closure/6-1	02/23/2000	02/24/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by

Mary/Pearson Project Manager

17



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

03/03/2000

Sample No. : 568236

Job No.: 00.01703

Sample Description:

CCCI/LS/Off-Site Closure/5-1

17094

Date Taken: 02/23/2000 Time Taken: 11:25 IEPA Cert. No. 100221

Date Received: 02/24/2000 Time Received: 14:55 WDNR Cert. No. 999447130

	Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batcl Prep			lytical ethod
Chromium,	hexavalent ICP	27 6,510	mg/kg dw mg/kg dw	03/01/2000 03/01/2000	15 3.0	jrr kdw	1559	539 2855		I 3060 5010B
Solids, To	tal	67.6	ŧ	03/03/2000	0.1	mws		3374	SM 2	2540
TCLP Metal	s Extraction	leached 0.350	mg/L	02/28/2000 03/02/2000	0.040	ert kdw	2960	1150 4759	SW S	1311 5010B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

03/03/2000

Sample No. : 568237

Job No.: 00.01703

Sample Description: CCCI/LS/Off-Site Closure/5-1D

17094

Date Taken: 02/23/2000 Time Taken: 11:26 IEPA Cert. No. 100221

Date Received: 02/24/2000 Time Received: 14:55 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, hexavalent	<15	mg/kg dw	03/01/2000	15	jrr	539	SWII 3060
Chromium, ICP	6,660	mg/kg dw	03/01/2000	3.0	kdw	1559 2855	SW 6010B
Solids, Total	67.6	ŧ	03/03/2000	0.1	2wm	3374	SM 2540
TCLP Metals Extraction	leached		02/28/2000		ert	1150	SW 1311
TCLP-Chromium, ICP	0.344	mg/L	03/02/2000	0.040	kdw	2960 4759	SW 6010B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

03/03/2000

Sample No. : 568238

Job No.: 00.01703

Sample Description: CCCI/LS/Off-Site Closure/6-1

17094

Date Taken: 02/23/2000 Time Taken: 11:55 IEPA Cert. No. 100221

Date Received: 02/24/2000

Time Received: 14:55 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Chromium, hexavalent	<15	mg/kg dw	03/01/2000	15	jrr	539	SWII 3060
Chromium, ICP	6,610	mg/kg dw	03/01/2000	3.1	kďw	1559 2855	SW 6010B
Solids, Total	65.1	ŧ	03/03/2000	0.1	mws	3374	SM 2540
TCLP Metals Extraction	leached		02/28/2000		ert	1150	SW 1311
TCLP-Chromium, ICP	<0.040	mg/L	03/02/2000	0.040	kdw	2960 4759	SW 6010B



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

03/03/2000

Job Number: 00.01703

	Run			
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
Chromium, hexavalent	539	0.25	0.246	98,4
Chromium, ICP	2855	2.00	1.96	98.0
TCLP-Chromium, ICP	4759	2.00	1.95	97.5



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

03/03/2000

Job Number: 00.01703

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Chromium, hexavalent		539	<10	mg/kg	10	SWII 3060
Chromium, ICP	1559	2853	<2.0	mg/Kg	2.0	SW 6010B
TCLP-Chromium, ICP	2960	4758	<0.040	mg/L	0.040	SW 6010B
TCLP-Chromium ICP	2960	4759	<0.040	ma /T.	0 040	SW 6010B

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106

20

03/03/2000

Job Number: 00.01703

Westmont, IL 60559 Mr. David Pyles

	Prep	Run	3		
	Batch	Batch	True	Conc.	rcs
Analyte	Number	Number	Conc.	Found	% Recovery
Chromium, hexavalent		539	2.5	2.45	98.0
•		539	2.5	2.45	98.0
Chromium, ICP	1559	2853	10.0	10.5	105.0
TCLP-Chromium, ICP	2960	4758	0.500	0.503	100.6
TCLP-Chromium, ICP	2960	4758	0.500	0.503	100.6



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

03/03/2000

Job Number: 00.01703

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Chromium, ICP	1559 1559	2853 2853	22.2 63.4	13 35	9.43 33.4	mg/kg mg/kg	97.6 86.4	22.5 57.1	9.09 28.1	mg/kg mg/kg	104.5 80.4	1.3
TCLP-Chromium, ICP	2960	4758	0.491	<0.040	0.500	mg/L	98.2	0.482	0.500	mg/L	96.4	1.8

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



DUPLICATES

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559

Mr. David Pyles

03/03/2000

Job Number: 00.01703

`						
	Prep	Run				
	Batch	Batch	Original	Duplicate		
Analyte	Number	Number	Analysis	Analysıs	Units	RPD
Solids, Total		3374	78.2	77.4	*	1.0
Solids, Total		3374	77.6	78.2	¥	0.8

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

		KEY TO ABBREVIATIONS and METHOD REFERENCES
<	:	Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	:	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
nā\ā	:	Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	:	Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	:	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	:	These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	:	These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements
*	:	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	:	Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	:	Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	:	Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	:	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Referen	ces	· ·
(1)		hods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, Edition, 1986.
(2)	a cm	M "American Society for Tecting Materials"

- (2) ASTM "American Society for Testing Materials"
- Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, (3) 600/4-79-020, Rev. 1983.
- See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989. (4)
- Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis (5) of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water, " USEPA 600/4-88/039, Rev. 1988.
- See "Methods for the Determination of Metals in Environmental Samples", Supplement I (7) EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

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Mr. Tom Rysiewicz KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 03/22/2000

Job Number: 00.02434

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: 17094

Sample	Sample Description	Date	Date
Number		Taken	Received
570911	CCCI/LS/Off Site Closure/7-1	03/13/2000	03/14/2000
570912	CCCI/LS/Off Site Closure/7-1D	03/13/2000	
570913	CCCI/LS/Off Site Closure/8-1	03/13/2000	

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson Manager



Mr. Tom Rysiewicz KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106

03/22/2000

Sample No. : 570911

Westmont, IL 60559 Job No.: 00.02434

Sample Description: CCCI/LS/Off Site Closure/7-1

17094

Date Taken: 03/13/2000 Time Taken: 14:49

IEPA Cert. No. 100221

Date Received: 03/14/2000

Time Received: 14:15 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Time Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	67.5		ŧ	03/20/2000		0 1	mws	3425	SM 2540
TCLP Metals Extraction	Leached			03/15/2000			ert	1160	SW 1311
Chromium, ICP	5,780		mg/kg dw	03/19/2000		3.0	kdw	1573 2876	SW 6010B
Chromium, Hexavalent	<15		mg/kg dw	03/21/2000		1.5	jrr	39	SWII 3060
TCLP-Chromium, ICP	0.417		mg/L	03/21/2000		0.040	kdw	2989 4785	SW 6010B



Mr. Tom Rysiewicz KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

03/22/2000

Sample No. : 570912

Job No.: 00.02434

Sample Description:

CCCI/LS/Off Site Closure/7-1D

17094

Date Taken: 03/13/2000 Time Taken: 14:50 IEPA Cert. No. 100221

Date Received: 03/14/2000 Time Received: 14:15 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Time Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	66.5		*	03/20/2000		0.1	mws	3425	SM 2540
TCLP Metals Extraction	Leached			03/15/2000			ert	1160	SW 1311
Chromium, ICP	6,170		mg/kg d	03/19/2000		3.0	kdw	1573 2876	SW 6010B
Chromium, Hexavalent	21		mg/kg d	03/21/2000		1.5	jrr	39	SWII 3060
TCLP-Chromium, ICP	0.393		mg/L	03/21/2000		0.040	kdw	2989 4785	SW 6010B



Mr. Tom Rysiewicz KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106 Westmont, IL 60559

03/22/2000

Sample No. : 570913

Job No.: 00.02434

Sample Description: CCCI/LS/Off Site Closure/8-1

17094

Date Taken: 03/13/2000 Time Taken: 15:15 IEPA Cert. No. 100221

Date Received: 03/14/2000

Time Received: 14:15 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Time Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	67.2		*	03/20/2000		0.1	mws	3425	SM 2540
TCLP Metals Extraction	Leached			03/15/2000			ert	1160	SW 1311
Chromium, ICP	5,950		mg/kg dw	03/19/2000		3.0	kdw	1573 2876	SW 6010B
Chromium, Hexavalent	15		mg/kg dw	03/21/2000		1.5	jrr	39	SWII 3060
TCLP-Chromium, ICP	0.908		mg/L	03/21/2000		0.040	kdw	2989 4785	SW 6010B



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106

414 Plaza Drive Ste. 106 Westmont, IL 60559

Mr. Tom Rysiewicz

03/22/2000

Job Number: 00.02434

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Chromium, ICP	2876	2.00	1.96	98.0
Chromium, Hexavalent	39	0.25	0.253	101.2
TCLP-Chromium, ICP	4785	2.00	1.96	98.0

CCV - Continuing Calibration Verification



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106

Westmont, IL 60559 Mr. Tom Rysiewicz 03/22/2000

Job Number: 00.02434

				ن. تر ب		
	Prep Batch	Run , Batch	Blank Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Chromium, ICP	1573	2876	<2.0	mg/Kg	2 0	SW 6010B
Chromium, Hexavalent		39	<1	mg/Kg	1.0	SWII 3060
TCLP-Chromium, ICP	2989	4785	<0.040	mq/L	0.040	SW 6010B

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Rysiewicz

03/22/2000

Job Number: 00.02434

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Chromium, ICP	1573	2876	25.0	24.7	98.8
Chromium, Hexavalent		39	2.5	2.6	104.0
TCLP-Chromium, ICP	2989	4785	0.500	0.513	102.6



DUPLICATES

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Rysiewicz

03/22/2000

Job Number: 00.02434

Prep Run
Batch Batch Original Duplicate
Analyte Number Number Analysis Analysis Units RPD

Solids, Total 3425 81.6 82.0 \$ 0.5

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

	AET TO ABBREVIATIONS and PETROD REFERENCES
<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
ng/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
*	: Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Referen	ces
(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(2)	Wathada 100 bhuanah 400 an awahada Garagaad Nashada da af yan and yannan yanna

- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

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Time

Date

Received By

Date

Relinquished By

Yes No

Bottles Supplied by TA:

Time



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 03/31/2000

Job Number: 00.02775

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #17094

Sample	Sample Description	Date	Date
Number		Taken	Received
572034 572035 572036 572037 572038	CCCI/LS/Acid Lagoon/9-1 CCCI/LS/Acid Lagoon/10-1 CCCI/LS/Acid Lagoon/11-1 CCCI/LS/Acid Lagoon/12-1 CCCI/LS/Acid Lagoon/10-1D	03/21/2000 03/21/2000 03/21/2000 03/21/2000 03/21/2000	03/22/2000 03/22/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Many Pearson Project Manager



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

03/31/2000

Sample No. : 572034

Job No.: 00.02775

Sample Description: CCCI/LS/Acid Lagoon/9-1

Proj. #17094

Date Taken: 03/21/2000 Time Taken: 14:30

IEPA Cert. No. 100221

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	77.2		*	03/29/2000	0.1	aks	3449	SM 2540
TCLP Metals Extraction	Leached			03/24/2000		kmb	1161	SW 1311
Chromium, ICP	3,240		mg/kg dw	03/30/2000	2.6	jtt	1584 2890	SW 6010B
Chromium, Hexavalent	19		mg/kg dw	03/28/2000	1.3	jrr	40	SWII 3060
TCLP-Chromium, ICP	0.602		mg/L	03/28/2000	0.040	jtt	3008 4800	SW 6010B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

03/31/2000

Sample No. : 572035

Job No.: 00.02775

Sample Description:

CCCI/LS/Acid Lagoon/10-1

Proj. #17094

Date Taken: 03/21/2000 Time Taken: 14:40

IEPA Cert. No. 100221

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	67 3		ŧ	03/29/2000	0.1	aks	3449	SM 2540
TCLP Metals Extraction	Leached			03/24/2000		kmb	1161	SW 1311
Chromium, ICP	5,650		mg/kg dw	03/30/2000	3 0	jtt	1584 2890	SW 6010B
Chromium, Hexavalent	22		mg/kg dw	03/28/2000	1.5	jrr	40	SWII 3060
			,					
TCLP-Chromium, ICP	0.076		mg/L	03/29/2000	0.040	jtt	3008 4800	SW 6010B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

03/31/2000

Sample No. : 572036

Job No.: 00.02775

Sample Description:

CCCI/LS/Acid Lagoon/11-1

Proj. #17094

Date Taken: 03/21/2000 Time Taken: 14:55 IEPA Cert. No. 100221

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	71.6		*	03/29/2000	0.1	aks	3449	SM 2540
TCLP Metals Extraction	Leached			03/24/2000		kmb	1161	SW 1311
Chromium, ICP	5,590		mg/kg dw	03/30/2000	2.8	jtt	1584 2890	SW 6010B
Chromium, Hexavalent	27		mg/kg dw	03/28/2000	1.4	jrr	40	SWII 3060
TCLP-Chromium, ICP	0.233		mg/L	03/29/2000	0.040	jtt	3008 4800	SW 6010B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

03/31/2000

Sample No. : 572037

Job No.: 00.02775

Sample Description:

CCCI/LS/Acid Lagoon/12-1

Proj. #17094

Date Taken: 03/21/2000 Time Taken: 15:08 IEPA Cert. No. 100221

Parameter	Result	Flag	Units ,	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	67.1		ł	03/29/2000	0.1	aks	3449	SM 2540
TCLP Metals Extraction	Leached			03/24/2000		kmb	1161	SW 1311
Chromium, ICP	5,960		mg/kg dw	03/30/2000	3.0	jtt	1584 2890	SW 6010B
Chromium, Hexavalent	<15		mg/kg dw	03/28/2000	1.5	jrr	40	SWII 3060
TCLP-Chromium, ICP	0.290		mg/L	03/29/2000	0.040	jtt	3008 4800	SW 6010B



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

03/31/2000

Sample No. : 572038

Job No.: 00.02775

Sample Description:

CCCI/LS/Acid Lagoon/10-1D

Proj. #17094

Date Taken: 03/21/2000 Time Taken: 14:40 IEPA Cert. No. 100221

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	69.9		*	03/29/2000	0.1	aks	3449	SM 2540
TCLP Metals Extraction	Leached			03/24/2000		kmb	1161	SW 1311
Chromium, ICP	5,870		mg/kg dw	03/30/2000	2 9	jtt	1584 2890	SW 6010B
Chromium, Hexavalent	30		mg/kg dw	03/28/2000	1.4	jrr	40	SWII 3060
TCLP-Chromium, ICP	0.166		mg/L	03/29/2000	0 040	jtt	3008 4800	SW 6010B



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Westmont, IL 60559 Mr. David Pyles

. 03/31/2000

Job Number: 00.02775

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
Chromium, ICP	2890	2.00	1.91	95.5
Chromium, Hexavalent	40	0.25	0.252	100 8
TCLP-Chromium, ICP	4800	2.00	1.97	98.5



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

03/31/2000

Job Number: 00.02775

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Chromium, ICP Chromium, Hexavalent TCLP-Chromium, ICP	1584 3008	2890 40 4800	<2.0 <1.0 <0.040	mg/Kg mg/Kg mg/L	2.0 1.0 0.040	SW 6010B SWII 3060 SW 6010B





Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

03/31/2000

Job Number: 00.02775

	Prep Batch	Run Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	1 Recovery
Chromium, ICP	1584	2890	25.0	26.0	104.0
Chromium, Hexavalent		40	2.5	2.52	100.8
TCLP-Chromium, ICP	3008	4800	0.500	0.544	108.8



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

03/31/2000

Job Number: 00.02775

	Prep	Run	Matrix	,	•				MSD			
	Batch	Batch	Spike	Sample	Spike		Percent	MSD	Spike		Percent	MS/MSD
Analyte	Number	Number	Result	Result	Amount	Units	Recovery	Result	Amount	Units	Recovery	RPD
TCLP-Chromium, ICP	3008	4800	0.516	<0.040	0.500	mg/L	103.2	0.516	0.500	mg/L	103 2	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

Page 10 of 11



DUPLICATES

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Job Number: 00.02775

03/31/2000

Westmont, IL 60559 Mr. David Pyles

Analyte .	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
Solids, Total		3449	83.9	82.2	*	2.0
Solids, Total		3449	47.2	49.8	*	5 4
Solids, Total		3449	89.8	89.6	ł	0.2
Solids, Total		3449	94.1	92.1	*	2.1
Solids, Total		3449	67.3	68.0	ŧ	1.0
Solids, Total		3449	73.6	72 5	ŧ	1.5

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.



TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

	KEY TO ABBREVIATIONS and METHOD REFERENCES
<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
*	: Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Referer	nces
(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
(5)	Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

See "Methods for the Determination of Metals in Environmental Samples", Supplement I

(7)

EPA-600/R-94/111, May 1994.



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA

TESTAMETICA INC. Chain of Custody Record Asheville, NC (A) A Bartlett, IL (C) Cedar Falls, IA (E) Charlotte, NC (G) Dayton, OH (I) Lumberton, NC (K) ☐ Nashville, TN (M) ☐ Pontiac, MI (O) Rockford, Il (O) (828) 254-5169 (630) 289-3100 (319) 277-2401 (704) 392-1164 (937) 294-6856 (248) 332-1940 (815) 874-2171 (910) 738-6190 (615) 726-0177 Atlanta, GA (B) ☐ Brighton, CO (D)☐ Charleston, SC (F)☐ Columbia, SC (H) Davenport, IA (J) Indianapolis, IN (L) ☐ Macon, GA (N) Orlando, FL (P) ☐ Watertown, WI (R) (770) 368-0636 (303) 659-0497 (843) 849-6550 (803) 796-8989 (319) 323-7944 (407) 851-2560 (920) 261-1660 (317) 842-4261 (912) 757-0811 Client: Project No.: REOUESTED PARAMETERS Invoice Address: Report Address: AME Is this work being conducted for regulatory compliance monitoring? Yes X No____ Attn: Is this work being conducted for regulatory enforcement action? Sampled By: Yes__ No_X P.O. No: Which regulations apply: Ouote No. RCRA NPDESWastewater TURNAROUND TIME UST Drinking Water State Samples Collected Standard Other None Rush (surcharges may apply) Date Needed: # and type of containers NaOH INO, Comp (C) Grab (G 1,50 Time Sample ID Date Matrix Lab Use REMARKS 3:08 Level 2 - Batch QC OC Deliverables: O None 5°Custile ☐ Level 4 ☐ Other Init Lab Temp Rec Lab Temp RESULTS TO WESTMONT. COMMENTS: Time LAB USE ONLY: Time Relinquished By: 943 Time Relinquished By Received By: Time Received By-Relinquished By: Date Date Custody Seal: Yes

Time

Received By:

Date

Relinquished By:

Bottles Supplied by TA:

Date



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 04/19/2000

Job Number: 00.03551

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #17094

Sample	Sample Description	Date	Date
Number		Taken	Received
574768 574769 574770 574771 574772 574773 574774 574775 574776 574777	CCCI/LS/Pie Lagoon Closure/13-1 CCCI/LS/Pie Lagoon Closure/14-1 CCCI/LS/Pie Lagoon Closure/15-1 CCCI/LS/Pie Lagoon Closure/16-1 CCCI/LS/Pie Lagoon Closure/17-1 CCCI/LS/Pie Lagoon Closure/17-1D CCCI/LS/Pie Lagoon Closure/18-1 CCCI/LS/Pie Lagoon Closure/19-1 CCCI/LS/Pie Lagoon Closure/20-1 CCCI/LS/Pie Lagoon Closure/21-1 CCCI/LS/Pie Lagoon Closure/21-1	04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000	04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000 04/10/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Mary Pearson Project Manager



Mr. David Pyles

KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

04/19/2000

Sample No. : 574768

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/13-1

Proj. #17094

Date Taken: 04/10/2000

Time Taken: 09:15
IEPA Cert. No. 100221

Date Received: 04/10/2000

Time Received: 16:10 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	74	s	ŧ	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	5,500	s	mg/kg dw	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	98	s	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

04/19/2000

Sample No. : 574769

Job No.: 00.03551

Sample Description: CCCI/LS/Pie Lagoon Closure/14-1

Proj. #17094

Date Taken: 04/10/2000
Time Taken: 09:28 IEPA Cert. No. 100221

Date Received: 04/10/2000

Time Received: 16:10
WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	73	s	ŧ	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	9,300	s	mg/kg dw	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	34	S	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	9.9	s	mg/L	04/13/2000	0.040	јар	3048 4853	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

04/19/2000

Sample No. : 574770

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/15-1

Proj. #17094

Date Taken: 04/10/2000 Time Taken: 09:39 IEPA Cert. No. 100221 Date Received: 04/10/2000

Time Received: 16:10 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	70	s	ŧ	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	8,600	s	mg/kg đw	04/13/2000	2 9	efw	1601 2913	SW 6010B
Chromium, Hexavalent	36	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium.ICP	6.2	s	ma/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

04/19/2000

Sample No. : 574771

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/16-1

Proj. #17094

Date Taken: 04/10/2000

Time Taken: 09:49 IEPA Cert. No. 100221 Date Received: 04/10/2000

Time Received: 16:10 WDNR Cert. No. 999447130

				Date	Reporting		Batch No.	Analytical
Parameter	Result	Flag	Units ',	Analyzed	Limit	Analyst	Prep/Run	Method
Solids, Total	72	s	ŧ	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	8,500	s	mg/kg dw	04/13/2000	2.8	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	13	s	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

04/19/2000

Sample No. : 574772

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/17-1

Proj. #17094

Date Taken: 04/10/2000

.)

Time Taken: 10:03 IEPA Cert. No. 100221 Date Received: 04/10/2000

Time Received: 16:10 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units 🙀	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	72	s	ŧ	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	6,400	s	mg/kg dw	04/13/2000	2.8	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	5.9	s	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

- 7

S : Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles

KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

04/19/2000

Sample No. : 574773

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/17-1D

Proj. #17094

Date Taken: 04/10/2000 Time Taken: 10:03

IEPA Cert. No. 100221

Date Received: 04/10/2000 Time Received: 16:10

WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No Prep/Run	Analytical Method
Solids, Total	73	s	ł	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	7,300	s	mg/kg d₩	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	3.6	s	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles KRIKAU, PYLÉS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Sample No. : 574774

Westmont, IL 60559

04/19/2000

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/18-1

Proj. #17094

Date Taken: 04/10/2000 Time Taken: 10:27 IEPA Cert. No. 100221

Date Received: 04/10/2000 Time Received: 16:10 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	74	s	ŧ	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	6,400	s	mg/kg dw	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	S	mg/kg dw	04/12/2000	1 4	efw	42	SWII 3060
TCLP-Chromium, ICP	2.5	s	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles

KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

04/19/2000

Sample No. : 574775

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/19-1

Proj. #17094

Date Taken: 04/10/2000 Time Taken: 10:37

IEPA Cert. No. 100221

Date Received: 04/10/2000 Time Received: 16:10

WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	73	s	ł	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	6,200	s	mg/kg dw	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	4.23	s	mq/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 04/19/2000

Sample No. : 574776

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/20-1

Proj. #17094

Date Taken: 04/10/2000

Time Taken: 10:45 IEPA Cert. No. 100221

Date Received: 04/10/2000

Time Received: 16:10 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	73	s	ł	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	4,400	s	mg/kg dw	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	0.20	s	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

04/19/2000

Sample No. : 574777

Job No.: 00.03551

CCCI/LS/Pie Lagoon Closure/21-1 Sample Description:

Proj. #17094

Date Taken: 04/10/2000 Time Taken: 10:55

IEPA Cert. No. 100221

Date Received: 04/10/2000 Time Received: 16:10 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	73	s	*	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	5,100	s	mg/kg dw	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.4	s	mg/kg dw	04/12/2000	1.4	efw	42	SWII 3060
TCLP-Chromium, ICP	0.093	s,	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

 $^{{\}bf S}$: Parameter analysis was sub-contracted to another TestAmerica location.



Mr. David Pyles

KRIKAU, PYLĖS, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

04/19/2000

Sample No. : 574778

Job No.: 00.03551

Sample Description:

CCCI/LS/Pie Lagoon Closure/22-1

Proj. #17094

Date Taken: 04/10/2000 Time Taken: 11:05

IEPA Cert. No. 100221

Date Received: 04/10/2000 Time Received: 16:10 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	75	s	¥	04/12/2000	0.1	efw	3487	SM 2540
Chromium, ICP	4,700	s	mg/kg dw	04/13/2000	2.7	efw	1601 2913	SW 6010B
Chromium, Hexavalent	<1.3	s	mg/kg dw	04/12/2000	1.3	efw	42	SWII 3060
TCLP-Chromium, ICP	0.28	s	mg/L	04/13/2000	0.040	efw	3048 4836	SW 6010B

S : Parameter analysis was sub-contracted to another TestAmerica location.



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106

Westmont, IL 60559 Mr. David Pyles 04/19/2000

Job Number: 00.03551

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
TCLP-Chromium, ICP	4853	5.00	5.00	100.0
TCLP-Chromium, ICP	4853	5 00	4.83	96.6





CCV - Continuing Calibration Verification



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559 Mr. David Pyles 04/19/2000

Job Number: 00.03551

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Chromium, ICP		2913	<2.0	mg/Kg	2.0	SW 6010B
Chromium, Hexavalent		42	<1.0	mg/Kg	1.0	SWII 3060
TCLP-Chromium, ICP		4836	<0.040	mg/L	0.040	SW 6010B
TCLP-Chromium, ICP		4853	<0.010	mg/L	0.040	SW 6010B
TCLP-Chromium. ICP		4853	<0.010 ¹	mq/L	0.040	SW 6010B

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

04/19/2000

414 Plaza Drive Ste. 106

Job Number: 00.03551

Westmont, IL 60559 Mr. David Pyles

	Prep	Run		G	1.00
	Batch	Batch	True	Conc	LCS
Analyte	Number	Number	Conc.	Found	<pre>% Recovery</pre>
Chromium, ICP		2913	50.0	50.0	100.0
Chromium, Hexavalent		42	1.2	1.10	91 7
TCLP-Chromium, ICP		4836	1.000	0 995	99 5
TCLP-Chromium, ICP		4853	1.000	0.870	87 0



TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	· Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	Concentration in units of micrograms of analyte per liter of sample Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb)
ug/Kg	. Concentration in units of micrograms of analyte per kilogram of sample Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb)
TCLP	. These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements
*	. Percent; To convert ppm to %, divide the result by 10,000 To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Referen	nces
(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
(5)	Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA

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TESTAMERICA INC.

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Test/America

Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

06/13/2000

Job Number: 00.05959

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: 17094

Sample	Sample Description	Date	Date
Number		Taken	Received
583388	CCCI/LS/14-4/Closure	06/08/2000	06/08/2000
583389	CCCI/LS/14-4 Dup/Closure	06/08/2000	06/08/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

> Mary Pearson Project Manager

Mary Fearson

Approved by:



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

06/13/2000

Sample No. : 583388

Job No.: 00.05959

Sample Description: CCCI/LS/14-4/Closure

17094

Date Taken: 06/08/2000 Time Taken: 09:50 IEPA Cert. No. 100221

Date Received: 06/08/2000 Time Received: 15:45

WDNR Cert. No. 999447130

P	n 1.	7 1	****	Date	Reporting	Ama luan	Batch No.	Analytical
Parameter	Result	Flag	Units	Analyzed	Limit	Analyst	Prep/Run	Method
Solids, Total	73.7		ł	06/09/2000	0.1	mpe	3644	SM 2540
TCLP Metals Extraction	Leached			06/08/2000		kar	1215	SW 1311
Chromium, Hexavalent	118		mg/kg dw	06/13/2000	1.4	kaf	47	SWII 3060
TCLP-Chromium, ICP	4.76		mq/L	06/12/2000	0.040	kdw	3184 5023	SW 6010B



Mr. David Pyles

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

06/13/2000

Sample No. : 583389

Job No.: 00.05959

Sample Description:

CCCI/LS/14-4 Dup/Closure

17094

Date Taken: 06/08/2000

Time Taken: 09:50

IEPA Cert. No. 100221

Date Received: 06/08/2000 Time Received: 15:45

WDNR Cert. No. 999447130

	D. 3.		••	Date	Reporting	22	Batch No.	Analytical
Parameter	Result	Flag	Units	Analyzed	Limit	Analyst	Prep/Run	Method
Solids, Total	73.5		*	06/09/2000	0.1	mpe	3644	SM 2540
TCLP Metals Extraction	Leached			06/08/2000		kar	1215	SW 1311
Chromium, Hexavalent	123		mg/kg dw	06/13/2000	1.4	kaf	47	SWII 3060
TCLP-Chromium, ICP	4.76		mg/L	06/12/2000	0.040	kdw	3184 5023	SW 6010B



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05959

CCV - Continuing Calibration Verification



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05959

	Prep Batch	Run Batch	Blank Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Solids, Total		3644	<0.1	ł	0.1	SM 2540
Chromium, Hexavalent		47	<10	mg/Kg	10	SWII 3060
TCLP-Chromium, ICP	3184	5023	<0.040	mg/L	0.040	SW 6010B

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05959

Analyte	Prep Batch Number	Run Batch Number	True	Conc. Found	LCS
Chromium, Hexavalent		47	2.50	2.36	94.4
TCLP-Chromium, ICP	3184	5023	0.500	0.454	90.8



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05959

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Chromium, Hexavalent TCLP-Chromium,ICP	3184	47 5023	313 0.419	123	318 0.500	mg/kg mg/L	59.5 83.8	401 0.427	306 0.500	mg/kg mg/L	90.8 85.4	24.8 1.9

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

Page 7 of 8



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DUPLICATES

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05959

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
Solids, Total		3644	83.2	83.1	*	0.1
Solids, Total		3644	82.7	83.0	ł	0.4
Solids, Total		3644	86.3	85.0	ł	1.5

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

Page 8 of 8



TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
ng/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
•	: Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP .	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Referen	nces
(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
(5)	Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

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Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 05/15/2000

Job Number: 00.04732

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #17094

Sample	Sample Description	Date	Date
Number		Taken	Received
579126	CCCI/LS/Pie Lagoon/15-3 /Closure	05/08/2000	05/09/2000
5791 27	CCCI/LS/Pie Lagoon/15-3D/Closure	05/08/2000	05/09/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson Project Manager



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

05/15/2000

Sample No. : 579126

Job No.: 00.04732

Sample Description:

CCCI/LS/Pie Lagoon/15-3 /Closure

Proj. #17094

Date Taken: 05/08/2000

Time Taken: 13:15

Date Received: 05/09/2000

Time Received: 16:20

Parameter	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
TCLP Metals Extraction TCLP-Chromium, ICP	Leached		mg/L	0.040	05/10/2000 05/12/2000	jap Jap	SW 1311 SW 6010B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 579127

05/15/2000

Job No.: 00.04732

Sample Description:

CCCI/LS/Pie Lagoon/15-3D/Closure

Proj. #17094

Date Taken: 05/08/2000 Time Taken: 13:15 Date Received: 05/09/2000

Time Received: 16:20

Analyst Analytical Result Flag Units Reporting Date Parameter Analyzed Limit Initials Method 05/10/2000 јар SW 1311 TCLP Metals Extraction Leached 05/12/2000 jap TCLP-Chromium, ICP 3.39 mg/L 0.040 SW 6010B



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AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
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(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
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(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.
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(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA

SW-846. It has been dropped from the 3rd Edition, 1986.

Relinquished By:

TESTAMINICA INC

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Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 06/13/2000

Job Number: 00.05782

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #17094

Sample	Sample Description	Date	Date
Number		Taken	Received
582750	CCCI/Pie Lagoon 16-4/Closure	06/05/2000	06/05/2000
582751	CCCI/Pie Lagoon 16-4 Dup/Closure	06/05/2000	06/05/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson Project Manager



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 06/13/2000

Sample No. : 582750

Job No.: 00.05782

Sample Description:

CCCI/Pie Lagoon 16-4/Closure

Proj. #17094

Date Taken: 06/05/2000

Time Taken: 09:00 IEPA Cert. No. 100221

Date Received: 06/05/2000

Time Received: 16:40 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	70.6		¥	06/08/2000	0.1	pjf	3638	SM 2540
TCLP Metals Extraction	Leached		•	06/05/2000	4.2	kar	1212	SW 1311
Chromium, Hexavalent	<14		mg/kg dw	06/13/2000	1.4	kaf	47	SWII 3060
TCLP-Chromium, ICP	3.99		mg/L	06/12/2000	0.040	kdw	3176 5012	SW 6010B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

06/13/2000

Sample No. : 582751

Job No.: 00.05782

Sample Description:

CCCI/Pie Lagoon 16-4 Dup/Closure

Proj. #17094

Date Taken: 06/05/2000 Time Taken: 09:00 IEPA Cert. No. 100221

Date Received: 06/05/2000 Time Received: 16:40

WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	70.8		*	06/08/2000	0.1	pjf	3638	SM 2540
TCLP Metals Extraction	Leached			06/05/2000		kar	1212	SW 1311
Chromium, Hexavalent	23.3		mg/kg dw	06/13/2000	1.4	kaf	47	SWII 3060
TCLP-Chromium, ICP	3.93		mg/L	06/12/2000	0.040	kdw	3176 5012	SW 6010B



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05782

Analyte	Run Batch Number	CCV True Conc	Conc. Found	Percent Recovery
Chromium, Hexavalent	47	0.25	0.266	106.4
TCLP-Chromium, ICP	5012	2.00	1.99	99.5



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05782

Analyte	Prep Batch Number	Run Batch '	Blank Analysis C Results	Units	Reporting Limit	Analytical Method
Chromium, Hexavalent		47	<10	mg/Kg	10	SWII 3060
TCLP-Chromium, ICP	3176	5012	<0.040	mg/L	0.040	SW 6010B

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05782

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS Recovery
Chromium, Hexavalent		47	2.50	2.36	94.4
TCLP-Chromium, ICP	3176	5012	0.500	0.506	101.2



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/13/2000

Job Number: 00.05782

Analyte	Prep Batch Number	Run Batch Number	Matrıx Spıke Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Chromium, Hexavalent TCLP-Chromium,ICP	3176	47 5012	313 0.488	123	318 0.500	mg/kg mg/L	59.5 97.6	401 0.479	306 0.500	mg/kg mg/L	90.8 95.8	24.8 1.9

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results:



TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

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mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
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TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
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AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
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(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Methods for the Determination of Metals in Environmental Samples", Supplement I

850 W. Bartlett Rd. / Bartlett, IL 60103-4400 / 630-289-3100 / Fax: 630-289-5445 / 800-378-5700

EPA-600/R-94/111, May 1994.



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986. Including Updates I and II.
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Chain of Cusudy Record	TE	STAME	MCA INC.		Page of
(828) 254-5169 (630) 289-3100 (319) Atlanta, GA (B) Brighton, CO (D) Char	r Falls, IA (E) Charlotte, N 277-2401 (704) 392-11 leston, SC (F) Columbia, S 849-6550 (803) 796-89	64 (937) 294-685 C (H) Davenport, IA	56 (910) 738-6190 A (J)	☐ Nashville, TN (M) ☐ Pontiac, (615) 726-0177 (248) 33 ☐ Macon, GA (N) ☐ Orlando (912) 757-0811 (407) 85	MI (O) Rockford. Il (Q) 32-1940 (815) 874-2171 D, FL (P) Watertown, WI (R)
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Phone No.: 27 22 377 Sampled By	ED Plac	/. \/.!			Is this work being conducted for regulatory enforcement action?
Fax No.: (7(- 2) \ / \ \ 72 \ P.O. No:	5×176)) / / /		Yes No
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TURNAROUND TIME State Sample	s Collected			/ //(1,67)	UST Drinking Water
Rush (surcharges may apply) Date Needed:	TUNE 8, 2000]/ / 》》	/ / / /	9/10	Other None
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Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 06/27/2000

Job Number: 00.06581

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: CCCI

Sample	Sample Description	Date	Date
Number		Taken	Received
585695	CCC1/PIE LAGOON/13-4/CLOSURE	06/22/2000	06/22/2000
585696	CCC1/PIE LAGOON/17-4/CLOSURE	06/22/2000	06/22/2000
585697	CCC1/PIE LAGOON/17-4D/CLOSURE	06/22/2000	06/22/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Mary Pearson Project Manager

Page 1 of 9



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

06/27/2000

Sample No. : 585695

Job No.: 00.06581

Sample Description: CCC1/PIE LAGOON/13-4/CLOSURE

CCCI

Date Taken: 06/22/2000 Time Taken: 09:50

IEPA Cert. No. 100221

Date Received: 06/22/2000 Time Received: 15:25 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	12.41		units	06/26/2000	0.10	plb	382	SW 9045B
Solids, Total	72.4		*	06/26/2000	0.1	rlj	3655	SM 2540
TCLP Metals Extraction	Leached			06/22/2000		kar	1224	SW 1311
Chromium, Hexavalent	<14		mg/kg dw	06/26/2000	1.4	jrr	48	SWII 3060
TCLP-Chromium, ICP	4.32		mg/L	06/26/2000	0.040	јар	5058	SW 6010B



Mr. David Pyles
KRIKAU, PYLES, RYSIEWICZ &
ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

06/27/2000

Sample No. : 585696

Job No.: 00.06581

Sample Description:

CCC1/PIE LAGOON/17-4/CLOSURE

. . .

CCCI

Date Taken: 06/22/2000

· .

Time Taken: 10:10 IEPA Cert. No. 100221 Date Received: 06/22/2000

Time Received: 15:25 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units :	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	12.40		units	06/26/2000	0.10	plb	382	SW 9045B
Solids, Total	72.8		*	06/26/2000	0.1	rlj	3655	SM 2540
TCLP Metals Extraction	Leached			06/22/2000		kar	1224	SW 1311
Chromium, Hexavalent	<14		mg/kg dw	06/26/2000	1.4	jrr	48	SWII 3060
TCLP-Chromium, ICP	3.80		mg/L	06/26/2000	0.040	јар	5058	SW 6010B



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

06/27/2000

Sample No. : 585697

Job No.: 00.06581

Sample Description:

CCC1/PIE LAGOON/17-4D/CLOSURE

Date Taken: 06/22/2000 Time Taken: 10:10 IEPA Cert. No. 100221

Date Received: 06/22/2000 Time Received: 15:25 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	12.45		units	06/26/2000	0.10	plb	382	SW 9045B
Solids, Total	71.2		ŧ	06/26/2000	0.1	rlj	3655	SM 2540
TCLP Metals Extraction	Leached			06/22/2000		kar	1224	SW 1311
Chromium, Hexavalent	17		mg/kg dw	06/26/2000	1.4	jrr	48	SWII 3060
TCLP-Chromium, ICP	3.42		mg/L	06/26/2000	0.040	јар	5058	SW 6010B



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & 06/27/2000 ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 Mr. David Pyles

Job Number: 00.06581

	Run	CCA		
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
pH, Non-Aqueous	382	7.00	6.95	99.3
pH, Non-Aqueous	382	7.00	7.02	100.3
Chromium. Hexavalent	48	0.25	0.242	96.8



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/27/2000

Job Number: 00.06581

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Solids, Total		3655	<0.1	ŧ	0.1	SM 2540
Chromium, Hexavalent		48	<0.010	mg/Kg	1.0	SWII 3060
TCLP-Chromium, ICP		5058	<0.50	mg/L	0.040	SW 6010B

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/27/2000

Job Number: 00.06581

Analyte	Prep Batch Number	Run Batch Number	True	Conc. Found	LCS Recovery
Chromium, Hexavalent		48	2.5	2.3	92.0
TCLP-Chromium, ICP		5058	5.00	4.37	87.4

21242



QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

06/27/2000

Job Number: 00.06581

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Chromium, Hexavalent		48	18	<14	352	mg/kg	5.1	23	336	mg/kg	7.0	26.7

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix Spike and Matrix Spike Duplicate results.

Page 8 of 9



QUALITY CONTROL REPORT

DUPLICATES

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106

06/27/2000

Job Number: 00.06581

Westmont, IL 60559 Mr. David Pyles

	Prep	Run	a.:	5		
	Batch	Batch	Original	Duplicate		
Analyte	Number	Number	Analysıs	Analysıs	Units	RPD
pH, Non-Aqueous		382	12.41	12.44	units	0.2
Solids, Total		3655	94.1	85.2	ŧ	9.9
Solids, Total		3655	81.3	81.7	ŧ	0.5
Solids, Total		3655	81.5	81.2	ŧ	0.4

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

Page 9 of 9

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TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
*	. Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Referen	nces
(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
(5)	Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Methods for the Determination of Metals in Environmental Samples", Supplement I

850~W.~Bartlett~Rd.~/~Bartlett,~IL~60103-4400~/~630-289-3100~/~Fax:~630-289-5445~/~800-378-5700~

EPA-600/R-94/111, May 1994.



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.
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1940 (815) 874-2171
L (P) Watertown, WI (R) (920) 261-1660
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Vhich regulations apply:
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Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 07/18/2000

Job Number: 00.07398

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #17094/CCCI

Sample	Sample Description	Date	Date
Number		Taken	Received
588274	CCCI/PIE Lagoon Closure/13-6	07/12/2000	07/13/2000
588275	CCCI/PIE Lagoon Closure/13-6D	07/12/2000	07/13/2000

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson Project Manager

Page 1 of 8



ANALYTICAL REPORT

Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

07/18/2000

Sample No. : 588274

Job No.: 00.07398

Sample Description: CCCI/PIE Lagoon Closure/13-6

Proj. #17094/CCCI

Date Taken: 07/12/2000 5. Time Taken: 13:40

IEPA Cert. No. 100221

Date Received: 07/13/2000 Time Received: 10:20 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	73.5		ŧ	07/14/2000	0.1	kmt	3685	SM 2540
TCLP Metals Extraction	Leached			07/14/2000		kar	1237	SW 1311
Chromium, Hexavalent	<14		mg/kg dw	07/17/2000	1 4	jrr	50	SWII 3060
TCLP-Chromium, ICP	3.77		mg/L	07/17/2000	0.040	kdw	3241 5109	SW 6010B



ANALYTICAL REPORT

Mr. David Pyles

KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

07/18/2000

Sample No. : 588275

Job No.: 00.07398

Sample Description:

CCCI/PIE Lagoon Closure/13-6D

Proj. #17094/CCCI

Date Taken: 07/12/2000 Time Taken: 13:40

IEPA Cert. No. 100221

Date Received: 07/13/2000 Time Received: 10:20

WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Reporting Limit	Analyst	Batch No. Prep/Run	Analytical Method
Solids, Total	73.2		*	07/14/2000	0.1	kmt	3685	SM 2540
TCLP Metals Extraction	Leached			07/14/2000		kar	1237	SW 1311
Chromium, Hexavalent	<14		mg/kg dw	07/17/2000	1.4	jrr	50	SWII 3060
TCLP-Chromium, ICP	3.42		mg/L	07/17/2000	0.040	kdw	3241 5109	SW 6010B



QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. David Pyles

07/18/2000

Job Number: 00.07398

	Run	CCV		
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
Chromium, Hexavalent	50	0.25	0.233	93.2
TCLP-Chromium, ICP	5109	2.00	2 01	100.5



TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample Measurement used for aqueous samples Can also be expressed as parts per million (ppm)
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb)
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
ŧ	: Percent; To convert ppm to %, divide the result by 10,000 To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Refere	nces
(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
(5)	Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Methods for the Determination of Metals in Environmental Samples", Supplement I

EPA-600/R-94/111, May 1994



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.———

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Client KPR & ASSOCIATE	5 5	Project N	No.: 170	41	CCCI			F	REQU	EST	ED PA	RAN	METI	ERS									
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Phone No: 630-325-	1300	Sampleo	i By ToM			1			\$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							,			regul	latory e	nforceme	ent action	1?
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CCCT/NE LAGOWNI CLOSURE / 13-6	7-12-00	1:40	C	SOIL		X	X													****			
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Relinquished By.			Date	1	Time	Receive	d By.						Date	1		Tın			', '		by TA:	- DYes	ONo.

Page 1 of 6

RCM Laboratories, Inc. 5400 East Avenue Countryside, IL 60525

Mr. Thomes Schwarhs
Kniksu, Pyles, Hysiswicz & Associates
414 Placa Orive, Suite 108
Westmort, IL 60554

REPORT DATE: 7/14/99
DATE RECEIVEU: 7/6/93
RCM PROJECT NUMBER: 990522
CLIENT JOB NUMBER: 17094
SAMPLED BY: CFent
PROJECT LOCATION: CCCI-Gary, IN

·············			Bulk analysis r Im thdil desiraloq		
BA.	SAMPLE DESCRIPTION		ESTOS CONTENT brated visual settenate)	NON-ASBESTOS FIBROUS COMPONENTS	non-pibrolis components
i	Extenor Coating On Tank 3 Brown Friable Fibrous Material (Client Sample # CXXVI-1-3-1)	25-33 NO NO NO NO NO NO	5 % Chrysolle % Amosite % Crocstolite % Tremulate % Anthophyllise % Actinolite	10 % Cellulose ND % MMMF* ND % Synthetic Fiber ND % Other Fiber	55 % BundenFiller
2	Exterior Coating On Tank 3 Brown Frable Fibrous Material (Client Sample # CCC1-T-3-2)	25-33 NO NO NO NO NO	% Chrysottle % Amoste % Crocstottle Tremotate % Anthophylita % Actinolite	5 % Cellulose 5 % MMMF* ND % Synthetic Piber ND % Other Fiber	55 % Hinder/Filler
3	Extenor Coaling On Tank 3 Brown Priable P(brows Material (Client Sample & CCCI-T-3-3)	15-35 ND ND ND ND	% Chrysotie % Amosite % Crocidolite % Tremolite % Authophylite % Actualite	10 % Cellulose ND % MMMT* ND % Synthetic Fiber NC % Ckher Fiber	55 % Bunder/Filler
4	Exterior Tank Insulation On Tank II Black Non-Priable Pibrous Material (Circut Sample # CCCI-T-11-1)	25-45 ND ND ND ND ND	% Chrysotile % Amoste % Crocidolite % Tremolite % Anthophyllite % Actinolite	5 % Cellulose ND % MMMP* ND % Synthatic Fiber ND % Other Fiber	50 % Bünder/Friller
•	Faterior Tank Insulation On Tank J I Brown Finable Fibrous Material (Client Saraple # CCCI-T-11-2)	25 26 26 26 26 26 26 26 26 26 26 26 26 26	% Chrysotile % Amosite % Crocidolite % Tremolite % Anthophythie % Actinolite	80 % Cellulosc ND % MMMF* ND % Synthetic Fiber ND % Other Fiber	20 % Biudse/Filler
3	Exterior Tank Insulation On Tank 11 Black Non-Prable Fibrous Material (Client Sample # (CCCI-T-11-2)	30-40 ND ND ND ND	% Chrysotile % Amosite % Crocidolite % Trenolite % Anthophyllite % Actualite	5 % Cellulose ND % MNMF* ND % Synthetic Fiber ND % Other Fiber	55 % BincerFiller

GENERAL COMMENTS:

(A) Samples analyzed by Polurized Light Microscopy using EPA recommended method (EPA/604/R-91-116, July 1998)

(B) Analytical results are only representable of the austrials tested.

(C) Non-school samples will be disposed of after three months unless chent makes special arrangements with RCM.

(D) Further analytical testing by FEM is recommended for floor the pumples and cooling material samples with asbeston results of most detected, trace detected or <1%. Paint Counting is recommended for frinchis materials containing prace to 10% asbeston.

(8) ND - New Dejected, TD - Track Detected.

*MMMF - Man Made Mayerst Piber (masers) wood, Floreglass, common filter, str.)

Page 2 of 6

RCM Laboratories, Inc. \$400 Em Avenue Combyside, IL 60529

Mr. Thomes Schwerha Krikau, Pyles, Rysiewicz & Associates 414 Plaza Driva, Sulte 100 Westmont, IL 60654 REPORT DATE:
DATE RECEIVED:
RCM PROJECT NUMBER:
CLIENT JOB NUMBER:

7/14/89 7/8/99 990522 17094

SAMPLED BY: PROJECT LOCATION: Client CCCI-Gary, IN

	BULK ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY									
SAMPLE DESCRIPTION		ASBESTOS (:ONTENT (calibrated Visual estimate)	NON-ABBESTOS FIBROUS COMPONENTS	NON-FEBROUS COMPONENTS						
64	Exterior Tunk Insulation On Tank II Brown Priable Fibrous Material (Client Sample # CCCI-T-II-3)	ND % Chrysotile ND % Amoste ND % Creddelite ND % Tremolite ND % Antiophylitis ND % Antiophylitis ND % Actionize	85 % Cellulose ND % MMMP* ND % Synthetic Fiber ND % Other Fiber	15 % Binder/Filler						
£78	Exection Tank Insulation On Tank 11 Black Non-Friebte Fibrous Material (Client Sample # CCCI-T-11-3)	30-40 % Chrysotile ND % Arnosite ND % Crockfolite ND % Tremolite ND % Authophyllize ND % Acthophyllize ND % Acthophyllize	10 % Celtulose ND % MMMP* ND % Synthetic Fiber ND % Other Fiber	30 % BindeoTiller						
7	Black Lining On Tank 8 Brown Prigble Fibrous Material (Chent Sample # CCCI-T-2-1)	10-15 % Chrysotile ND % Amoeite ND % Crockfolite ND % Trenulite ND % Anthophyllite ND % Anthophyllite ND % Aotholite	5 % Cellulose ND % MMMF* ND % Synthetic Fibor ND % Other Fiber	80 % Muster/Filler						
	Black Lining On Tank 8 Brown Priable Fibrous Material (Client Sample # CCC1-T-8-2)	10-15 % Chrysotile ND % Amostite ND % Crocidolite ND % Trumolite ND % Asthephylhte ND % Actinolite	3 % Cellulose ND % MMMF* ND % Synthetic Fiber ND % Other fiber	80 % Dsades/Filler						
9	Black Living On Tank 8 Brown Friable Pibrous Material (Cilent Sample 8 CCCI-T-8-3)	10-15 % Chrysotile ND % Amosits ND % Crockwise ND % Tremolite ND % Anthophylite ND % Actnolite	5 % Cellulose ND % MMMF* NO 14 Synthetic Fiber ND % Other Fiber	10 % Binder/Filler						
a	baterior Coating On Tauk 18 Brown Frieble Fibrous Meterial (Client Sample # CCCT-T-18-1)	J5-45 % Chrysotile ND % Ansoeks ND % Crocldoine ND % Tremolite NO % Authophyllise ND % Activolite	S % Cellulose NO % MMNF* NO % Synlwsic Fiber ND % Other Piber	50 % Broden'tiller						

GENERAL COMMENTS:

⁽A) Samples analyzed by Polarized Light Microscopy using BPA recommended method (EPA/600/R-93-116, July 1993)

⁽⁸⁾ Analytical results are only representative of the materials tested.

⁽C) Non-school samples will be disposed of after three months unless client makes special arrangements with RCM.

⁽D) Further analytical testing by TEM is recommended for floor tile samples and reading material stateping with arbestor results of none detected trues detected or <1%. Point Counting is recommended for friable materials continuing trace to 10% asbeston (E) ND - None Detected, TD - Trace Detected.

^{*}MMMF - Man Made Memeral Fibor (mineral wood, thereglass, occurso fiber, etc.)

Page 3 of 6

RCM Laboratories, Inc.

\$400 Kust Avenue Countryside, IL 60615

Mr. Thomas Schwerha Krikau, Pyles, Rysiewicz & Associates 414 Plaza Drive, Suite 106 Westmont, IL 60554

REPORT DATE: DATE RECEIVED: RCM PROJECT NUMBER: 7/14/99 7/8/99 990522

CLIENT JOB NUMBER: SAMPLED BY:

17094 Chent

PROJECT LUCATION:

CCCI-Gary, IN

BULK ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY								
LAB	Sample Description	ASBESTOS CONTENT (calibrated viewal settimate)	non-assestos Fibrous components	NON-FIBROUS COMPONENTS				
11	Exterior Coating On Tank 18 Brown Friable Fibrous Material (Client Sample # CCCI-T-18-2)	35-45 % Chrysotile ND % Amostic NO % Crocklative ND % Trempite ND % Anthophyllise ND % Activolite	5 % Cellulose ND % MMMP* ND % Symbotic Fiber ND % Other Fiber	50 % Binder/Filler				
12	Exterior Coming On Tank 18 Brown Friable Fibrour Material (Client Sample # CCCI-T-18-))	15-25 % Chrysodie ND % Arosole ND % Crocldotte ND % Trensolite ND % Anthophylite ND % Authophylite ND % Authophylite	5 % Cellulose ND % MMMMe* ND % Synthetic Piber ND % Other Fiber	70 % Binder/Filler				
13	Cooling Tower Transite (Between Tanks 18-19) Belge Non-Frieble Fibrous Material (Client Sample # CCCI-CT-1)	ND % Amostise ND % Crocklotise ND % Crocklotise ND % Tremotise ND % Anthophyllic ND % Acticults	ND % Cellulose ND % MMMs* ND % Symthetic Piber ND % Other Fiber	15 % Bindsuffiller				
14	Cooling Tower Transito (Hetween Tanka 18-19) Beige Non-Priable Fibrous Material (Cliant Sample # OCCI-CT-2)	75-85 % Chrysonile ND % Amosite ND % Crocidolits ND % Tremolite NO % Anthophyllire ND % Acturolite	ND % Celluluse ND % MMMF* ND % Synthetic Fiber ND % Other Fiber	15 % Binder/Filter				
15	Cooling Tower Trausic (Octween Tanks 18-19) Beige Non-Friable Pibrous Material (Client Sample # CCC1-CT-3)	75-85 % Chrysotie ND % Amoste ND % Crectolite ND % Tremolie ND % Authophylite ND % Actinolite	ND % Celluluse ND % MMMF* ND % Synthetic Piber ND % Other Fibor	15 % Binder/Filler				
16	Tank Linus On Tank 26 Reige Friable Fibrous Material (Client Sample # CCC(-T-26-1)	10-20 % Chrysoble ND % Amoslis ND % Croxidolite ND % Tremolite ND % Anthophyllise ND % Actualite	5 % Cellulosc 10 % MMMF* 5 % Synthetic Fiber ND % Other Fiber	60 % Binder/Filler				

GENERAL, COMMENTS:

- (A) Samples analyzed by Polarized Light Macroscopy using EPA recommended method (EPA/600/R-93-116, July 1993)
- (B) Analytical results are only representative of the materials tested.
- (C) Non-school samples will be disposed of after three months unless effect makes special arrangements with RCM
- (D) Further analytical testing by TEM is precumenced for floor the samples and recting contents complete with substant results of none democrack, trace detected or <1%. Future Counting is recommended for fittable materials containing trace to 10% substant (E) ND None Detected; TD Trace Detected.
- *MMMP Man Made Mineral Piber (mineral wood, fiberglass, oursule fiber, sta.)

18-11

Page 4 of 8

RCM Laboratories, Inc. 5400 East Avenue Countryside, IL 40525

Mr. Thomas Schwerha Krikau, Pyles, Ryslewicz & Associates 414 Plaza Drive, Suite 106 Westmont, IL 50554

REPORT DATE: 7/14/98 DATE RECEIVED: 7/8/99 RCM PROJECT NUMBER: 990522 CLIENT JOB NUMBER: 17094 SAMPLED BY: Chent CCCI-Dary, IN PROJECT LOCATION

	BULK ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY								
LAB			TOS CONTENT and year; estimate)	NON-ASSESTOS FIBROUS COMPONENTS	NON-FIBROUS COMPONENTS				
17	Tank Lining On Tank 27 Black Frable Fibrous Material (Client Saraple # CCCI-7-27-1)	15-25 ND ND ND ND ND	% Chrysodie % Amosits % Chresionie % Trensolite % Anthophyllite % Actualits	5 % Collulose 5 % MMMF* 10 % Synthetic Piber ND % Other Fiber	55 % Binden/Filler				
18	Tank Lining Oo Tank 28 Black Non-Priable Fibrous (Client Sample # CCCI-T-28-1)	JS-45 ND ND ND ND ND	% Chrysotile % Austrito % Crockdolite % Tremolite % Austrophyllise % Actualise	ND % Cellulosc 5 % I-MMF* 10 % Synthetic Fiber ND % Other Fiber	40 % BindonFiller				
19	Tank Living On Tank 33 Black Frishle Phorous Material (Client Sample # CUCA-T-33-1)	5-10 MD MD MD MD MD	Chrysotic Amoste Crockolite Tranoite Adiuphyllite Asirolite	5 % Cellulose ND % MMMF* ND 16 Syuthetic Fiber ND % Other Fiber	85 % Gunder/Piller				
20	Tank Lining On Tank 33 Black Friable Fibrous Material (Client Sample # CCCI-T-33-2)	5-10 ND ND ND ND ND	% Chrysotile % Antosite - % Crocidolate % Tremolate % Anthophylite % Actholise	5 % Cellalose ND % NMMAP* ND % Synthouc Fiber ND % Other Fiber	\$5 % BuidenFiller				
21	Tank Links On Task 33 Black Friable Pibrous Material (Citient Sample # CCC1-T-33-3)	ND	% Chrysotile % Amasite % Crocidolite % Tremolite % Anthophyllita % Actipolite	5 % Cellulose ND 16 MMMF* ND % Synthetic Fiber ND 16 Other Fiber	35 % Uinder/Piller				
12	Transite Panets (Near Tank 36) Beige Non-Friable Fibrous Majertel (Client Sample F CCC'I-TR-1)	ИD ИО ИО	M Ctrysoule M Aridelie M Crockelie M Tremolie M Anthophyllite M Activalle	ND % Callulose ND % MMMF* ND % Synthetic Piber ND % Other Pibar	20 % Uindze/Piller				

GENERAL COMMENTS.

⁽A) Samples analyzed by Polarized Light Microscopy using EPA recommended method (EPA/600/R-93-116, July 1993)
(B) Analytical results are only representative of the materials tested.

⁽C) Non-school samples will be disposed of after three months unless clean makes special arrangements with RCM

⁽D) Further analytical testing by TEM is recommended for floor the samples and reafling undertal assuptor with asbeston results

of some detected, trace detected or <1%. Feint Counting is recommended for friable materials containing trace to 10% accessos. (B) ND - None Detected; TD - Trace Detected.

[&]quot;MAIMY - Men triade Mineral Piber (mineral wool, fiberglass, ceramic fiber, etc.)

Page 5 of 8

RCM Laboratories, Inc.

8400 Eset Avenue Countryside, IL 60525

Mr. Thomas Schwertia Krikeu, Pyles, Rysiewicz & Azaociates 414 Plaza Drive, Suits 105 Westmont, IL 80854 REPORT DATE: DATE RECEIVED: RCM PROJECT NUMBER: CLIENT JOB NUMBER: 7/14/09 7/8/00 090622 17094 Client

SAMPLED BY: PROJECT LOCATION:

CCCI-Gary, IN

Bulk analysis report Polarized Light Microscopy									
LAB	SAMPLE DESCRIPTION	ASBESTOS CONTENT (calibrated viewal estimate)	NON-ASRESTOS PIBROUS COMPONENTS	NON-PIBROUS COMPONENTS					
23	Orick Lining to Tauk 38 Reige Non-Prablo Pibrous Material (Client Sample # CCCI-1-38-1)	ND % Chrysoille ND % Arrestie ND % Cracidolite ND % Tremalita ND % Authophylite ND % Actualite	ND % Cellulose ND % MMMC* ND % Symbose Fiber ND % Other Piber	100 % BinderFiller					
24	Brick Lining In Tank 39 Beige Non-Friable Non-Florous Material (Client Sample # CCC(+T+39-1)	ND % Chrysotile ND % Amoetic ND % Crootdollite ND % Tremolite ND % Anthophylite ND % Authorize	ND % Cellulose ND % MMMAF* ND % Symbolic Fiber ND % Other Fiber	100 % BindonFiller					
25	Insulation On Top Cap Of Tower Beign Friable Pibrous Material (Client Sample # CCCI-TO-1)	30-40 % Chrysotile ND % Amostle ND % Crocidolis ND % Tremolise ND % Antiophylise ND % Activolise	10 % Collulose ND % MMMH* ND % Synthetic Fiber ND % Other Fiber	50 % Bindon/Filler					
26	Insalation On Top Cap Of Tower Berge Fnable Fibrous Material (Cilent Sample # CCCI-TO-2)	30-40 % Chrysottle ND % Amosita NU % Crockfolite ND % Tremokte ND % AnthophyRita ND % Actinolite	10 % Callulose ND % MMMF* ND % Synthetic Fiber ND % Other Fiber	50 % Hader/Filler					
27	Insulation On Top Cap Of Tower Berge Priable Fibrum Material (Cileut Sample N CCCI-TO-3)	30-40 % Curysottle NO % Amosto ND % Crockfolite NO % Tremelite NO % Anthophylline ND % Actinolite	10 % Colluloue ND % MMMf ⁴ ND % Synthetic Piber ND % Other Fiber	50 % Binder/Fillor					
28	Coating On Tank 14 Brown Friable Fibrous Material (Chent Sample & CCCI-T-14-1)	NO % Chrysouls NO % Amostus NO % Cracidative NO % Tremolite NO % Anthophyllite NO % Actinolite	5 % Cellulose ND % MMMP* ND % Synthetic Fiber ND % Other Fiber	55 % Busicr/Filler					

GENERAL COMMENTS:

⁽A) Samples analyzed by Polarized Light Microscopy using EPA recommended method (EPA/600/R-93-116, July 1993)

⁽B) Analytical results are only representative of the materials tested.

⁽C) Non-school samples will be disposed of after three months unless client makes special arrangements with RCM.

⁽U) Further analytical testing by TEM is recommended for their the number and peofing material samples with asbettes results of none detected, trues detected or <1%. Point Counting is recommended for triable materials containing true to 10% asbestes.

(E) ND - None Detected; TD - Tiace Detected.

^{*}MiMMF - Man Made Mineral Pilot (mineral wood, fiberglass, ceremic fiber, etc.)

Page 6 of 8

RCM Laboratories, Inc. 5460 East Avenue Countryside, IC 64525

Mr Thomas Schwerha Krikau, Pyles, Ryslewicz & Associates 414 Plaza Orlve, Suite 106 Westmont, IL 80554 REPORT DATE:
DATE RECEIVED.
RCM PROJECT NUMBER.
CLIENT JOB NUMBER:

7/14/99 7/8/99 990522 17094

BAMPURD BY: PROJECT LOCATION: Client CCCI-Gary, IN

.,,,,	[L 60554		PROJECT COCATION	.: CCC1-G8/γ,				
Bulk analysis report Polarized light Microscopy								
HA.	Sample Description	ASSESTOS CONTENT (calibrated visual estimate)	Non-arbestos Fibrous components	NON-FIBROUS COMPONENTS				
29	Coading On Tank 14 Brown Friable Fibrens Material (Client Sample # CCCI-T-14-2)	30-40 % Chrysotke ND % Amosiss ND % Crocidolita ND % Tremolits ND % Antiophyllits ND % Actinolits	5 % Cellulosc NO % MMM1" ND % Syndietic Fiber ND % Other Fiber	55 % Bindreff giler				
30	Coating On Tank 14 Brown Friable Fibrous Material (Client Sample # CCCI-T-14-3)	30-40 % Chrysotile NII % Areatise ND % Crockfolite ND % Tremohe ND % Anthophyllite ND % Authophyllite ND % Authophyllite	5 % Cellulose ND % MMMAP ND % Synthetic Fiber ND % Other Fiber	55 % Busdon/Eiller				

GENERAL COMMENTS:

(A) Samples analyzed by Polanzed Light Microscopy using CPA recommended method (EPA/600/R-9)-116, July 1993)

(B) Analytical results are cutly representative of the materials tested.

(C) Non school samples will be disjoust of after three months unless oftent makes special arrangements with RCM

(D) Further analytical testing by TEM is recommended for their the complex and recting tenterial temptes with animate positive of none detected, trace detected or <1%. Point Counting is recommended for frieble materials containing trace to 19% ashestes.

(E) ND - None Douglad; TD - Trace Detected.

*MMMP - Man Made Mayeral Pibor (mineral wool, fiburglars, ocranefo liber, rtn.)

alls Yuksowian, Labosenon, Analysi

RCM Laboratories, Inc. (RCM)

5400 East Avenue, Countryside, Illinois 60525

Phone: (708) 485-8600

Fax: (708) 485-8607

ASBESTOS SAMPLE ANALYSIS CHAIN OF CUSTODY

Lab use on	ly:	Log-In			
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	in the first to Tig	ব্রতির হার করেন	17-7 Turk	•	

Priority: Type of Anal	Flash 12 Hour ysis: PCM PLM	- • •	48 Hour TEM Gravimetric	3-5 Day Point Counting				
Name:	THOMAS SCHWERHA	Project Location:	CCCI					
	KPR & ASSOCIATES		GARY, INDIANA					
Address:	414 PLAZA DR. SUITE 106	Client Project #:	17094					
City, State, Zip:	WESTMONT IL 60559	Batch #:						
Phone:	630- 325-1300	P.O. #:						
Fax:	630- 325-1593	Client #:						

	Rield#	Lab#%	Sample Description/Comments:	Volume	Résults
CCCI.	T-3-1		EXTERIOR COATING ON TANK 3	1-2 fts	
ч	T-3-2		数1941年 1941		
l)	T-3-3		μ , μ , μ		
LI.	7-11-1		EXTERIOR TANK INSULATION ON TANK !!	5 ft3	
н	T-11-2		d H y K H		
n l	T-11-3), -	the and the subject of the subject o		
11	T-8-1		BLACK ZINING ON TANK B	4-5 ++3	
	T-8-Z				· T S · · · · · ·
	T-8-3		1C 11 11 11		
u	T-18-1		EXTERIOR CONTING ON TANK 18	5ft3	-
.,,	T-18-2		n n n		
11	T-18-3		Company of the second of the s	·	ï
]	CT-1		COOLING TOWER TRANSITE (BIWN TANKS 18-19)	20ft3	
u	CT-2				en en en en en en en en en en en en en e
,,	CT-3		u a a h u a		
u	T-26-/		TANK LINING ON TANK 26	40ft3	
,	T-27-1		11 11 11 TANK 27	40 A 3	
u	T-28-1		11 TANK 28	40 ft 3	
n	T-33-1		11 11 TANK 33	20ft3	

Comments:		M SCHWERA	ıA	
-	Phone/Pager: 325	5-1300		
_	Fax:	5-1593		
Collected By: (Signature)	homes A. Johnson Date Time Received By: 7-7-99 AM (Signature)		Date	Time
Relinquished By: (Signature)	hours AC 1 Date Time Received By: (Signature)	Λ	Date	Time
Relinquished By: / (Signature)	Date Time Received By Laboratory Byx (Signature)	7/	7 /8	Time 10.3/)
Analyzed B	Date: Client Notified By: Date: Report Mailed By:		Date:	

RCM Laboratories, Inc. (RCM)

5400 East Avenue, Countryside, Illinois 60525

Phone: (708) 485-8600

Fax: (708) 485-8607

Priority: Type of An	alvsi	S:	-	ish M		12 H	-	· ·		Iour M'Air	ه م		8 Ho И:Gr	-	netric		3-5 I Point	Day Cour
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Field#2	%L	ib#8			/ Sa	impl	e Des	crip	tion/	Comn	ient				Vo	lume		Resu
T-33-2			TA	NK	LININ	60	N	TAN	K 3.	3								
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TR-1	<u></u>			RANSI						ANK	36))						
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

State fo	:r 44593	'R.'5-95				
:. 7	YPE OF NOTIFE	CATION (check one):	Original X * Must includ	Revised*	CancelledCounte	esy
٠. :	ACTLETY INFOR	MATICH (raentity owner	, removat contracto	r, den ok tron con	tractor, inspector, and p	roject designer
5	650	O Industrial H	lighway Group	- CCCI S.	M	
A	∞-es:: <u>649</u>	9 Industrial H	lighway			·-···
=	Gar	У		State	: Indiana	315: 46406
5	entact: Fr	ed Krikau		Telep	cone =: : <u>219 :944-8357</u>	7
		AC Environmental		Demotition Contractor:		
		37 Garfield		Accress:		
3	y: Highl	and state: IN	I ::: 46322	C: ty:	State:_	l's:
		ve Widlacki >.	(219)	i	Phi	
;	h Ace-ec: 1	.90105098 _{Ex}	piration: <u>9-21-</u> 99			
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1	!nspector:			Project Designe	r:	
,	Accress:			Accress:		
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	:N Acches#:	Ex	p) ration:	IN Accrecat:		iration:
:	Phone:			Phone:		
	TYPE OF OPERA	TION (check one)	Renovation :_ Demolition:_}		Emergency Renovation: Ordered Demolition:	
īv.		RESENT? (check one)				
					T THE PRESENCE AND AMOUNT	OF ASSESTES MATER
	PLM					·
v:.	APPROXIMATE A	MOUNT OF ASBESTOS (Inc	tude Regulated ACM,	Category : non-r	riable Category II non-fr	iable ACM)
		Regulated		Destos Material Temoved		spestos Materia:
		ACM to be removed	Category :	Category ::	Category !	Category !:
oroes (L	n=;)					
Surrace	Area (Sqft)	1		No greater	than	
	tume (CuFt)					
	orponents SCHEDULED DAT	TES OF ASBESTOS STRIPPI	NG/REMOVAL: Star	8-9-99	=m: 8-31	<u>-99</u>
					EMOLITION: Stant:	
					anks #: 3,8,11,14,1	
1		CCCI's storag			39 and trans	site siding
	Street Acches	:. 6499 Industri	al Highway			
	chty: Gary	<u> </u>		:e·IN	low-tvLal-	ce
l	Location of	removat within buildin	s: Tank stag	ing area		
		e (Saft):			= of Floors:	Age:
1		Abandoned proce		<u> </u>	Chemical processo	

ζ.	DESCRIPTION OF PLANKED D. TYPE OF MATERIALS REMOVE		METHOS/TECHNIQUES TO	O BE USED, AFFECTED FACILITY COMPONENTS AND
	Asbestos fel	lt paper - full contai	nment under nega	tive pressure
				
x:.		FIRS, REMOVAL AND WASTE HANDL		NT EMISSIONS OF ASSESTOS AT THE SITE; VENT NON-FRIABLE ASSESTOS MATERIAL FROM
	Thoroughly wet	tting material and sea	ling in leakproo	of containers
x::.	ASSESTED MATERIAL SECONS	ES CRUMBLED, PULVERIZED, CR RE	EDUCED TO POWDER:	estos is formo or previously wow-friable
	vacuums	ediatery. Crean affect	ed area using we	t methods and htpa littered
XIII.	WASTE TRANSPORTER	Off Commiss The	1	POSAL SITE
		l Off Service, Inc.		erest Lawn Landfill 8230 W. Forest Lawn Road
		Hillock Avenue		
		_ State: <u>ILzim:60608</u> (312) Phone: 567-9266		nree Oaks state: MI zizt49' 0616) Bob Walls Phone: 756-9254
×v.				AD ATTACH A COPY OF THE CROER TO THIS FORM.
	Name:		tle:	Date ordered to begin:
	Authority:			Date of Order:
xv:.	FOR EMERGENCY REMOVATIO			
	Date and time or emerge	ney:	·	
	Description of Succen,	unexpected event:		
	Explanation of how the	event caused unsare condition	ಇ or would cause ecu:	ement damage.
~XV:::.			· ·	CETIGESCA AKAICKI SZU YJKO JILU I TAHT C
	PART 51, SUBPART M; AND	, IF APPLICABLE, INDIANAPOLIS H EVIDENCE THAT THE REQUIRED	AIR POLLUTION CONTRO	TH HAVE BEEN TRAINED IN 326 IAC 14-10; 40 CB DE BOARD RECULATION XIII. THE TRAINED SHED SHALL SE AVAILABLE AT THE LOB SITE
	Steve Wis			7-26-99
ļ	Steve Widlac	_		Sales/Operations
i	phret/operator (brinte	······································		arrivation
			E OKTA NAMANAMAN	
POSTM	ARK:	RECEIVED:	REVIEWED BY:	DEFICIENCIES:
CPERA	TOR #:	NOTIFICATION #:	LOGGED:	cc to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

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	TYPE OF HOLLEN	A. LON (EMECE ONE):			tion enter it being n	
	FACILITY INFORM	ATION (raentity owner,	, removak zontract:	on, denotion contr	actor, inspector, and	projest designer
	6500	Industrial H	ighway Grou	- CCCI S.M		·····
	*==:: 6499	Industrial H	ighway			
	cory: Gary			State:_	Indiana	2.2: 46406
	co-tact: Fre	d Krikau		Tereson	:-e =: · 219 ·944-83	357
		AC Environmental		Demokition Contractor:		
	Accress: 273	7 Garfield.		Accress:		· <u></u>
	:::y: Highl	and state: IN		c::y·	Stat	: 2.5:
	contact: Stev	e Widlacki Pag	(219) =: <u>838-1555</u>	Contact:		240~::
		90105098 Ex		\	•	
					estos projects at so	-cots 5 - 12)
	Inches				:	
		State:				
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 IV.	IS ASSESTES PE	RESERT? (check one)	Y=:23Y	жc:		
	PROCEDURES. :)	HELLEDING AHALYTICAL ME	THOOS, IF APPROPRI	ATE, USED TO DETECT	THE PRESENCE AND AMO	UNT OF ASSESTES MATER
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		ACH to be removed	Category :	Category ::	Category :	1
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				i No greater t	han'	
	e Area (SGFt)	<u> </u>	 	No greater t	waste	
	Yolune (Cuft) Components				- ; !	
v::.	SCHEULED DAT	TES OF ASSESTED STRIPP	ING/REMOVAL: ST	s-t: 8-16-99		-8-99
v:::.	SEMEDULED DAT	TES OF PENCYATION: S	Tart:	inc: 31	MOLITION: Start:	
;x.					anks #: 3,8,11,1	4,18,26,27,28,38
		CCCI's storage			39 and tr	ansite siding
		6499 Industr				
	: :/:_ Gar			:sterIN		Lake
		remova, within buildi				
1			7			174
		e (Sc*t);				Age:
1	Present Use:	Abandoned proc	ess facility_	Prior use:	Chemical proce	220I

•	CESCRIPTION OF PE	LAHMED DEMOLITION OR REMOVATION WORK S REMOVED:	, METHOS/TECHNIQUES	TO BE USED, AFFECTED FACILITY COM	PONENTS A
	Asbest	os felt paper - full conta	inment under ne	gative pressure	
					
:.	INCLUDING ASSEST SECOMING FRIABLE	ORK PRACTICES AND ENGINEEPING CONTR OS STRIPPING, REMOVAL AND HASTS HAN IN THE COURSE OF THE PROJECT:	DUING PROCEDURES TO	PREVENT NOW-FRIABLE ASBESTOS MATER:	SITE (AL FROM
	Thorough	nly wetting material and se	aling in leakpr	oof containers	
		<u> </u>			
<::.	DESCRIPTION OF P ASSESTOS MATERIA	PROCEDURES TO SE FOLLOWED IN THE EVE THE SECOMES CRUMBLED, PULYERIZED, OR THE SECOMES CRUMBLED, PULYERIZED, OR	NT THAT UNEXPECTED A REDUCED TO POWDER:	SEESTOS IS FOUND OR PREVIOUSLY NON	-FRIABLE
	Stop_war	k immediately. Clean affec	ted area using	wet methods and HEPA filte	red
	vacuums				
x:::.	MASTE TRANSPORT	ER	XIV. WASTE :	DISPOSAL SITE	
	wame: Atla	as Roll Off Service, Inc.	нате:_	Forest Lawn Landfill	
•	Accress: 2750) S. Hillock Avenue	Accres	s: 8230 W. Forest Lawn Roa	d
	-:-v Chicac	10 State: IL 2:2:606		Three Oaks state: MI	
		ck ?hane: 567-926	5.17	: Bob Walls Phone: 7	616) 56-925
					
×γ.	is demonition o	RDERED BY A GOVERNMENT AGENCY, IDEN			
	Name:		Title:	Date ordered to begin:	:
	Authority:			Date of Order:	
xv:.	FOR EMERGENCY R	ENCLITAVORE:			
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		. Widlacki		President	
	pymer/operator	(anintes,	·	arratron	
			nze oxives		
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS State Form 44593 18 3-95

:.	TYPE OF HOTEFICATION (check one): Origin * Mus	nal Revised X Cand at include copy or nethrication	elice Countesv	
	FACILITY (NECERTATION Croent by owner, removal o	ontractor, cend. : on contractor	n repetter, are project	202,320-
	care 6500 Industrial Highway	Group - CCCI S.M		
	Apress 6499 Industrial Highway			
	c to Gary	State: In	diana :=	45406
·	co-cast Fred Krikau	Telephone F	· 219 ·944-8357	
	Perova. MAC Environmental &	1 Demokit on		
f 1	Emitation: <u>Insulation Corporation</u>	į		
	Accress: 2737 Garfield.	i		
!	crity: <u>Highland</u> state: <u>IN</u> City (210)	<u>45322</u> c·	State:	1.5:
1	terraci: Steve Widlacki Proc: 939	_1555 Contact:	::	
,	:4 Accres: 190105098 Exp. ration: 9	<u>9-21-</u> 99		_
	-	(Required for aspests	s projects at schools K .	:2;
	[mspessons	Project Designen:		
	Acc-ess:		·	
			State:	2:s:
	:N Address: Expinetion:	i		
	Phone:	Phone:		
:::.			engengy Renovation:	
	TYPE OF OPERATION (these one) Reno Intentional Burning: Demo		dened Demolition :	······
14.	IS ASSESTEDS PRESENTE (check one) YES:	<u>Y</u> NC:		
٧.	PROCEDURES, INCLUDING ANALYTICAL METHODS, IF	APPROPRIATE, USED TO DETECT THE	PRESENCE AND AMOUNT OF ASS	EESTOS MATE
	PLM			
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v:	APPROXIMATE AMOUNT OF ASSESTOS (Include Regul	ated ACM, Category : non-triable	: Dategory II non-triable	. 5//
!!				
1	Regulated Acres	Triable Aspestos Materia.	Non-thiable Aspesto	s Materia.
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2.005	Regulated ACM to be removed Catego		Non-rhiable Asbesto	s Materia. Te dendi i
2 2 2 2	Regulated ACM to be hemoved Catego	To be removed ::	Non-thiable Aspesto Not to be jembyed befo Dategony :	s Materia. Te dendi i
Scac	Catego (Lnin) a Anea (Soft)	To be renoved	Non-thiable Aspesto Not to be jembyed befo Dategony :	s Materia. Te dendi i
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Suac	Catego (Unit) ### Area (Soft) Volume (Cuft)	No greater than	Non-thiable Aspesto Not to be jembyed befo Dategony :	s Materia. The demok to Category
Suec	Catego (LnFr) # Area (Soft) Components	To be recoved Categor ::	Non-rinable Aspesto Not to be jeroved before Category :	s Materia. The demok to Category
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Susc Tota. Susc VII.	Regulated ACM to be hemoved Catego (Unit) # Anea (Soft) Volume (Cuft) Components SCHEDULED DATES OF ASSESTES STRIPP.NG/REMOVAN		Category: Enc _ 9-15-99 Category:	Ener
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Susc Tota. Dryon-	Regulated ACT to be neroved Catego (Loft) # Area (Soft) Volume (Cuft) Comments SCHEDULED DATES OF ASSESSES STRIPPLNG/RENOVAL CO-EDULED DATES OF RENOVATION: Stants #ACTUITY DECORATE ON (Locume Duttoing name, EL 10 ng Name CCCI's storage tank Ithest Address 6499 Industrial High Elif Gary	No greater than 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of was 100 yrds of way 100 yrds of wa	Category: te Enc _ 9-15-99 24: 5:2-1:	Ener
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•	CESCRIPTION OF PLA TYPE OF MATERIALS	HAED DEMOLITION OR RENOVATION WOR REMOVED.	K, METHOS/TECHNIQUE	S TO BE USED, AFFECTED FACILITY COMPONE
	Asbesto	s felt paper - full conta	ainment under ne	egative pressure
			_	
.:.	INCLUDING ASSESTE	RC PRACTICES AND ENGINEERING CONT S STRIPPING, REMOVAL AND WASTE HA IN THE COURSE OF THE PROJECT:	ROLS TO BE USED TO PENDLING PROCEDURES TO	PERENT EMICORONS OF ASSESTED AT THE SITE PREVENT NOW-FRIABLE ASSESTED MATERIAL
	Thoroughl	ly wetting material and s	ealing in leakp	roof containers
		:		
x::.	DESCRIPTION OF PR ASSESSEDS MATERIAL	PE AFT AT CEVOLICE SE CT SERVICECO CELISEVIUS (CEJEKUSO SEKCIES), CA	ENT THAT UNEXPECTED REDUCED TO POWDER:	ASSESTOS (S FOLKO OR PREVIOUSLY NON-FR)
	Stop_war	<u>cimmediately. Clean affe</u>	cted area using	wet methods and HEPA filtered
	vacuums			
				· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·	
×:::.	WASTE TRAKSPORTER		XIV. WASTE	
		s Roll Off Service, Inc.	!	Forest Lawn Landfill
		S. Hillock Avenue		8230 W. Forest Lawn Road
	Enty: Chicago	0 State: IL 3:5:60	508 c:ty:	Three Oaks state: MI Ziz
	Sentact: Chucl	20 20 20 20 20 20 20 20 20 20 20 20 20 2	<u>66</u> Conta	:: Bob Walls Phone: 756-
×v.	IF DEMOLITION OR	DERED BY A GOVERNMENT AGENCY, IDE	HTIFY THE AGENCY BEL	DW AND ATTACH A COPY OF THE ORDER TO TH
	Yane:		Title:	Date ordered to begin:
	Authority:			Date of Order:
			····	
xv:.	FOR EMERGENCY RE	NOVATIONS:		
	Date and time of	eue.de.ch:		
}	Description of §	icon, chexpertes event:		
	Explanation of t	Tok the event caused unsare cond:	tions or would take	eath aren't datager
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X :	WORKERS AND PROFART BY SUBPART	JETT SUPERVISORS, TO IMPLEMENT TH MANALICAL LEJEADILAPALICAL INCLANA	is Assestos Project, Olis Air Pollution &	T AND THAT I WILL ONLY USE INDIANA ACCRE WHICH HAVE BEEN TRAINED IN BZE IAC IA- WIROL ECARD RECLIATION XIII, THE TRAINE
1	TYDIVIDUAL(S) AS DURING ACTUAL W		RED TRAINING WAS ACT	BOLISHT TA BLEALIAVA BE LUARS CEREILEN
1	1	illen-		8-13-99
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	James R	. Widlacki		President
			1 72E Cr 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NOTIFICATION OF DEMOLITION AND RENOVATION OPERATIONS

State For- 22591 '7 J-95 Original Revised X Cancelles Courtesv

* Must include copy or notification in only bring nevised TYPE OF NOTIFICATION (eneck one) Origina: FUE IN UNFORMATION (reentriew owner), removal contractor, demolition contractor inspector, and project decignor -___ 6500 Industrial Highway Group - CCCI S.M -arrest 6499 Industrial Highway State _ Indiana ____ : <u>-</u>._46405 cary Gary Telephone = -- 219 -944-8357 taria: Fred Krikau MAC Environmental & i Demok tran Insulation Corporation ! Contractor:_ Accress: 2737 Garfield Accress:_ o tv. <u>Highland</u> state: <u>IN</u> zis- 46322 1 0 ty:__ ___ 2::::___ (219) 2500: 633_1555 commant: Steve Widlacki :k xccrez:_190105098 Exp: -at:on: 9-21-99 (Recourses for aspestos ordifects at schooks (+ 12) Project Designeri_____ | Accress:______ ______ State:_____ 2.p:____ S: TY:___ _______ State:_____ Cipi___ _____Expiration:_____ :4 Ass-es=:__ l Phone: :::. TYPE OF CPERATION (check one) Removation : Emergency Removation:_ Derolition: X Ordered Demotition :_ Intentional Burning: IV. 15 ASSESTES PRESENT? (check one) YES: Y PROCEDURES, INCLIDING ANALYTICAL METHOSS, IF APPROPRIATE, USED TO DETECT THE PRESENCE AND AMOUNT OF ASSESTED MATE ٧. И VI. APPPOXIMATE AMOUNT OF ASSESTOS (Include Regulated ACM) Dategon, I non-thrable Dategony II non-friable ACM) Non-relacte Aspestos Materia. triable Aspestos Materia. אמן זמ מה השושיבה מהומהה בפודם."! בי בים בים בים ₹ = \$1.31 = 2 ACT to be temoved Category : Category Category : Category : || Proms (2001) No greater than Surrace Area (Sqft) | 1 Total Volume (Suff) | 1 == 9-15-99 SCHEWLE DATES OF ASSESTED STRIPPING/PEMORAL: STATE: 8-19-99 V. . . . P / ... £~c:_____ DEMOLITION. 512711 DOHEDULED DATES OF FENCHATIONS Stants______ FACILITY DESCRIPTION (Linelike builts in name, floor, and room number) Tanks =: 3,8,11,14,18,26,27,29, 39 and transite siding El character CCCI's storage tank exterior coatings, itter sames 6499 Industrial Highway ::-: Lake : :/ _ Gary ::::::<u>__</u> IN. Tank staging area -Location of removal elegan outleins:___ Aş=:___ Burkerng Size (Seft): = e+ :.se=s:___ Chemical processor Prest uss: Abandoned process facility 2-10-15-

	CEECRIPTION OF PLA	HANED DEMOLITION OR RENOVATION WO.	RK, METHODS/	1804410088 TO 88	USED, AFFECTED FACILE	TY COMPONENTS .
	Asbesto	os felt paper - full cont	ainment u	nder negativ	e pressure	
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	Thorough	lv wetting material and s	sealing in	leakproof o	containers	
<::.	ASSESTAN SOTSEEZA	COSSOURES TO BE FOLLOWED IN THE E L BECOMES DRUMBLED, POLVERICED, O	R REDUCED TO	POWDER:		
	Stop war! vacuums	<u>k i-mediately. Clean affe</u>	ected area	e using wet m	methods and HEPA	filtered
. <u> </u>						
×:::.	WASTE TRANSPORTE		×:v.			
		s Roll Off Service, Inc.			st Lawn Landfill	
	Accress: 2750	S. Hillock Avenue		Accress: 82	30 W. Forest Law	m Road
		0 state: IL tip: 60 k ?nme: 567-0			e Oaks state: N	(6;0)
					b Walls	
XV.		DEREN BY A GOVERNMENT AGENCY, ID				
					Date ordered t	5 Deg: 1:
xv:.						
^*	FOR EMERGENCY REDuctions of					
		same, arexperter event.				
	Explanation of	Tow the event caused undare time	tions or wa	.,ಕ ಚರ್ಚ ಜಾ. ಸಾ	eut mende.	
 X' : : ·	WORKERS AND PRO	TY THAT THE INFORMATION IN THIS NOTES TO SERVE SUPERVISORS, TO IMPLEMENT TO THE LAND, AND APPLICABLE, INC. AND APP	-IS ASSESTOS POLIS AIR PO	PROJECT, WHICH	45 EE 7000 10 1 200 Equito XIII	525 (AC (L-10) - - THE TRAINE
ii li		illele-			8-17-99	
si	Tamas D	. Widlacki			read dank	
ıi I	טמתפט ת	<u></u>	, -,-,	······································	President	
			: USE OKLY**			
POST	MARK:	RECEIVED:		/:EVED 3Y:	DEFICIES	
U		1 (07) (10)	1			

ATLAS ROLL OFF SERVICE, INC.

	2750 C. Hulook Avenus - Cu	M	ANIFEST No M 1484
al	2. OPERATOR'S CERTIFICATION: 1 hereby declare that the contents of this consignment are fully and accurately described above by proper shinternational and government regulations. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ASBESTOS) 9, PG III, UN 3077 SIGNATURE MO. DAY YEAR ADDRESS & PHONE NO. 1. TRANSPORTER 1 (ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS) NAME & TITLE SIGNATURE MO. DAY YEAR ADDRESS & PHONE NO. 1. TRANSPORTER 2 (ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS) NAME & TITLE SIGNATURE MO. DAY YEAR ADDRESS & PHONE NO.		
<i>₹Ω</i> _ε .	130		0.0000
	1. WORK SITE NAME & MAILING ADDRESS / C /	OWNER'S NAME	PHONE NO.
541	CONSERLATION Chemical	GREY End Spire	217-744-8357
	, —, —, —, —, — , — , — , — , — , — , —	Cike JOB NO.	# 990126
	11/11 INC Mighting	T., C PHONE NO	1555
	*** IN CASE OF EMERGENCY DURING SHI		CATIONS COORDINATOR ***
		S & PHYSICAL SITE LOCATION	PHONE NO.
~	266 E 500 S. A.D. Brook IN 9	CONTACT: LOFI CLAY FOR	374-4808
GENERATOR	ILLINOIS-EPA P.OBOX-19276		
一里		7 1	
GEN	Men Duess	NO. TYPE	
	8. SPECIAL HANDLING INSTRUCTIONS & ADDITIONAL INFO	DRMATION	
	Do Not Pante	Chrys	
	name and are classified, packed, marked, and labeled, and		
	ENVIRONMENTALLY H	AZARDOUS SUBSTANCE. SO	OLID. N.O.S.
			,
ļ	NAME & TITLE	SIGNATURE ,	
	10. TRANSPORTER 1 (ACKNOWLEDGEMENT OF RECEIPT (OF MATERIALS)	
<u>a</u>	NAME & TITLE 5 / L SC 7 L C 1 2	SIGNATURE .	MO. DAY YEAR
世	14041 scutted	Of Lame	5-15-55
TRANSPORTER		7.69	
SP		DF MATERIALS)	
Z			
TR.	NAME & TITLE	SIGNATURE	
	ADDRESS & PHONE NO.		7
Ш	12. DISCREPANCY INDICATION SPACE	7. The state of th	
SIT			
POSAL	13. WASTE DISPOSAL SITE OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF ASBESTOS MATERIALS C	OVERED BY THIS MANIFEST EXCEPT AS NOT	ED IN ITEM 12.
8	NAME & TITLE	SIGNATURE ,	MO. DAY YEAR
SIS	RAME & TITLE // IMMAN SCILLE	Kitchie Henrice	11/15/503

ILCC114265 ICCMC308154



J & L SERVICES, INC.

Transportation Division 14041 S. Central Avenue

Midlothian II 60445

4887

		Office: 70	8-388-8298 • Fa	k: 708-388-4255	10 1411	SKOH-OLF
CONSIGNEE:	•		,		SHIPPER:	
5061	19rd			Con	scructio	- Phemical
4545/	37-451			• • •	_	il pl. query
WAY BILL NU	ord 51		·:		GARY	-11/1
WAY BILL NU	IMBERS TICL 9	7 306	0			,
NO. PIECES			D SPECIAL MARKS	WEIGHT	RATE	TOTAL CHARGES
/	TRI# 30	· · · · · · · · · · · · · · · · · · ·	15-FT	Full .		
			·	<i>Y</i> . • • • • • • • • • • • • • • • • • • •		
			RECE	1 -1110 C	٠ - ـــــــــــــــــــــــــــــــــــ	NOTION EXCEPT AS NOTED
DATE	DRIVER	> -		16 / /	11111	
19-14-9	59 18/1	5/7/11		SHOW COMPLETE CO. NA	ME & SIGNATURE	INITIALS NOT ACCEPTED

ICC REQUIRES THAT FREIGHT CHARGES BE PAID WITHIN SEVEN (7) DAYS

101 ZU 77 more 62 16 14	
ASBESTOS WASTE PROFILE	SHEET Profile #:
Requested Landfill Facility: NEWTON	COUNTY
I. GENERATOR INFORMATION	
* 1. Generator Name: 6500 INDUSTRIAL HOWY GROUP	· · · · · · · · · · · · · · · · · · ·
x 2. Site Address: 6499 INOUSTRIAL HIGHWAY	
City: GARY INDIANA 4640.	
3. Mailing Address: C/O KPR & ASSOCIATES 414 PLAZA	DR., County: DUPAGE
City: WESTMONT	State: IL Zip: 60559
4. Contect Name: DAVID PYLES	
5. Phone #: (630) 325-1300	_
6. Fax 8: (630) 325-1593	<u> </u>
II. CONTRACTOR/OPERATOR INFORMATION (if applicable)	
	2. Contact Name, Phone # & Fax #:
	Consect KEVIN KIE//
2737 GARFIELD AVE	Phone#: (219) 838-1555
HIGHLAND IN 46322	Fax#: (219) 923 -6713
III. TRANSPORTATION INFORMATION	
1. Method of Shipment (Circle One):	
BULK DRUM BAGGED OTHER:	
2. Transport Frequency: ONE TIME DAILY (Circle One)	WEEKLY
MONTHLY QUARTERLY	•
3. Project Term: 6 MONTHS	4. Total Volume: (cubic yards)
5. Transporter Name and Address:	6. Contact Name, Phone # & Fax #:
ATLAS ROll OFF SERVICE	Connect: CHUCK. NELSON
2750 S Hillock AVE	Phone#:(31Z) 567 - 9266
CHICAGO IL 60608	Fax#: (312) 567 - 0036
IV. FHYSICAL CHARACTERISTICS OF WASTE:	
1. Waste Description: ACM	
2. This Asbestos Waste is (Circle One): FRIABLE	NON-FRIABLE
3. This Asbestos Waste is from (Circle One): RENOVATION	
4. Special Handling Instructions (If any): 10 Not 1E1	AR OR FUNTURE BAG
5. Asbestos content (if available) ppm.	
Y GENERATOR/OPERATOR CERTIFICATION	
I hereby certify that to the best of my knowledge and belief, the information commined berein is for disposal. I further certify that by utilizing this profile form, neither myself nor any other cm for disposal any waste which is classified as tooic waste, hazardous waste, medical or infection of any other waste material this facility is prohibited by law from accepting. Our company best resulting from this certification being inaccurate or untrue.	player of the company will deliver for disposal of themps in deliver is waste as they are defined by RCRA, 42 U.S.A. [6992 to 6992X], by agrees to fully indemnify this disposal facility against any damages.
Than Reserve	9-14-99 Daugher FOR 6500 IND. HIGHWAY GROUP
Authorized Representative Signature	Daighert FOR 6500 IND.
THOMAS RYSIGWILA.	HIGHWAY GROUP
Authorized Representative Name (Type or Print)	Title

steProfile#

IDEM Verification Notice Addendum

SPECIAL REQUIREMENTS	Is waste subject to special handling Yes No No Yequirements in 329 IAC 10-8.1-12? Check all that's applicable.											
	Generates fugitive dust (329 IAC 10-8.1-12(b))											
IF CHECKED PLEASE PROVIDE	Hazardous waste that was delisted from regulation (329 IAC 10-8 1-12(i))											
DOCUMENTATION	Assigned by commissioner as Caugory B waste (329 IAC 10-8.1-7(h)(7)											
	Waste has been rendered non-hazardous. NOTE: If so, waste is considered Category A and must be certified by IDEM.											
ENCLOSURES	Documentation used to make the waste determination required by 329 IAC 10-7 1											
	If samples taken, the following must be included: Sampling and Analysis Plan Quality Assurance/Quality Control Documentation Analytical Results											
	Analytical Results											
CERTIFICATION	"The waste described in the documentation accompanying this request for verification is a special waste as defined in 329 IAC 10-2-179. This waste is not a hazardous waste as described in 40 CFR 261 and 40 CFR 190 through 40 CFR 299 and 40 CFR 761, nor is it any other type of unauthorized waste." The information submitted is, to the best of my knowledge true, accurate and complete											
	Chemical THOMAS RYSIUNICE 9-14-99 Generator Signature (type or print name) Date											
	Title Concrator Signature U (type or print name) Date AGOUT FOR 6500 TUDUSTRIAL HIGHWAY GROUP											

4.0

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NEWTON COUNTY DEVELOPMENT CORP

2266 E 500 South P.C. Bris Lin, Brook Indiana 47922 (219) 394-2808 Fax (219) 394-2805

MEMORANDUM

TO: Ryan Schoolsma Site Manager Newton County Development Corp.

FROM: Lori Clayton AWI Sales

RE: Non-Friable Asbestos Approval

DATE, september 14, 1999

This memo will serve to inform you that Indiana District, Special Waste Liaison has reviewed the documentation submitted for hisposal approval in accordance with AWI Special Waste Policy. The Non-Friable asbestos from 6500 Industrial Highway Group located at 6499 Industrial Highway Gary, IN. 46406 has been found to be acceptable for disposal as a SOLID WASTE at Newton County Development Corp. facility

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Elieuld you have any constrons, or need any assistance, please feel free to contact me at (800) 475-9220.

1997 (2001) Fig. New York County Development

ANALYTICAL SUMMARY

Conservation Chemical Company of Illinois Sample Dates: October 28, 1999 and November 2, 1999

	TP-2	TP-5	TP-6	TP-7	TP-8	TP-9	TP-10	TP-11	TP-12	TP-13	TP-13	TP-14	TP-14	Regulatory Level
SAMPLE DEPTH (IN FEET)	6-7	7.0	7.0	7.0	70	70	2-3	4-6	3-4	7.0	DUP	3-4	7.0	1
ANALYTES					-							-		1
	•	**,	1 1 11 4	,	:	' -			<u>*</u> .			*		· · · · · · · · · · · · · · · · · · ·
Cyanide	BDL	BDL	0.46	BDL	BDL	84	BDL	BDL	BDL	BDL	BDL	203	816	
TCLP-Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Barium	BDL	BDL	0.394	0 161	BDL	1.92	BDL	BDL	0 104	BDL	BDL	BDL	0.777	100
TCLP-Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0 078	10
TCLP-Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Lead	BDL	21.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0
TCLP-Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
PCB-1016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
PCB-1221	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
PCB-1232	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
PCB-1242	BDL	BDL	BDL.	BDL	BDL	BDL	BDL	BDL	19 4	0 057	0.110	2 06	BDL	50
PCB-1248	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
PCB-1254	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8 89	BDL	0 061	1 30	BDL	50
PCB-1260	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Cresols	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	0.71	200
TCLP-o-Cresols	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25	200
TCLP-m&p-Cresol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.46	200
TCLP-Pentachlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-2,4,5-Trichlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-2,4,6-Trichlorophenol	BDL.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Benzene	0.29	0.11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.093	BDL	0.5
TCLP-Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-1,4-Dichlorobenzene	BDL.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Methyl Ethyl Ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Tetrachloroethane	0.021	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0 079	BDL	BDL	BDL	BDL	0.7
TCLP-Trichloroethene	BDL	0.19	BDL	BDL	BDL	BDL	BDL	BDL	1.0	BDL	BDL	2.0	100	0.5
TCLP-Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Hexachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
TCLP-Nitrobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP-2,4-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<u> </u>
TCLP-Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
TCLP- Pyridine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

11/16/1999

NET Job Number: 99.12079

THE CON MANNEY.

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130

A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: CCCI; 17094

Sample	Sample Description	Date	Date
Number		Taken	Received
552785 552786 552787 552788 552789 552790 552791 552792 552793	CCCI/TP-2-1; 6-7' CCCI/TP-5-1; 7' CCCI/TP-6-1; 7' CCCI/TP-7-1; 7' CCCI/TP-8-1; 7' CCCI/TP-9-1; 7' CCCI/TP-10-1; 2-3' CCCI/TP-12-1; 3-4' CCCI/TP-TB-1	10/28/1999 10/28/1999 10/29/1999 10/29/1999 10/29/1999 10/29/1999 10/29/1999 10/29/1999	11/01/1999 11/01/1999 11/01/1999 11/01/1999 11/01/1999 11/01/1999 11/01/1999 11/01/1999

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:
Mary Flamo

Mary Pearson

Project Manager



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 552785

11/16/1999

Job No.: 99.12079

Sample Description: CCCI/TP-2-1; 6-7'

CCCI; 17094

Date Taken: 10/28/1999 Date Received: 11/01/1999

Time Taken: 11:38 Time Received: 15:20 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst		ch No. p/Run	Λ	nalytical Method
Cyanide, total	<0.28		mg/kg dw	11/10/1999	0 28	jrr		680	S	W 9012A
Solids, Total	90.1		*	11/10/1999	0 1	gmg		3120		M 2540
TCLP, ZHE Volatiles Prep	leached			11/02/1999		nbk	650		SI	V 1311
TCLP Metals Extraction	leached			11/02/1999		nbk		1067	S	1311
TCLP-Arsenic, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4609	SV	√ 6010B
TCLP-Barium, ICP	<0 1	MX	mg/L	11/11/1999	0.020	kdw	2764	4611	SV	6010B
TCLP-Cadmium, ICP	<0.05	MX	mg/L	11/11/1999	0.010	kdw	2764	5493	S	6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2764	4593	SV	6010B
TCLP-Lead, ICP	<1.0	MX	mg/L	11/11/1999	0.200	kdw	2764	4799	SW	6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	<1.0	мх	mg/L	11/11/1999	0.20	kdw	2764	4415	SW	6010B
TCLP-Silver, ICP	<0.2	мх	mg/L	11/11/1999	0.050	kdw	2764	4799	SW	6010B
TCLP Organic Prep	leached			11/02/1999		nbk		551	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		усе	475		SW	3540C
PCBs 8082 NonAqueous		мх								
PCB-1016	<110		ug∕kg d₩	11/14/1999	55	tls	475	889	SW	8082
PCB-1221	<110		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1232	<110		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1242	<110		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1248	<110		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1254	<110		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1260	<110		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
Surr: Tetrachloroxylene (TCX)	93.0		*	11/14/1999	59-118	tls '	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	99.0		ŧ	11/14/1999	55-132			889		8082
Prep, BNA Extract (TCLP)	extracted			11/03/1999		rap 7	717		SW	3510C

MX : Dilution required due to sample matrix, analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552785

Job No.: 99.12079

Sample Description: CCCI/TP-2-1; 6-7'

CCCI; 17094

Date Received: 11/01/1999 Time Received: 15:20 WDNR Cert. No. 999447130 Date Taken: 10/28/1999 Time Taken: 11:38

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analys		.ch No.	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-m&p Cresol	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
TCLP-Pentachlorophenol	< 0 50	mg/L	11/12/1999	0.50	pll	717	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	717	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
Surr Phenol-d6	31.0	*	11/12/1999	10-94	pll	717	1646	SW 8270B
Surr: 2-Fluorophenol	43.5	*	11/12/1999	21-100	pll	717	1646	SW 8270B
Surr: 2,4,6-Tribromophenol	65.0	ł	11/12/1999	10-123	pll	717	1646	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	0.029	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/12/1999	0.020	myo	650	3284	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/L	11/12/1999	0.40	mjo	650	3284	SW 8260B
TCLP-Tetrachloroethene	0.021	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Trichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
Surr: Dibromofluoromethane	92.0	*	11/12/1999	75-130	mjo	650	3284	SW 8260B
Surr: Toluene-d8	100.0	*	11/12/1999	85-117	mjo	650	3284	SW 8260B
Surr: Bromofluorobenzene	102.0	ŧ	11/12/1999	80-116	mj <i>o</i>	650	3284	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 552785

11/16/1999

Job No.: 99.12079

Sample Description: CCCI/TP-2-1; 6-7'

CCCI; 17094

Date Taken: 10/28/1999 Time Taken: 11:38

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run	Analytical Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
Surr: Nitrobenzene-d5	66.0	*	11/12/1999	35-114	pll	717	1646	SW 8270B
Surr: 2-Fluorobiphenyl	66.0	ŧ	11/12/1999	43-116	pll	717	1646	SW 8270B
Surr: Terphenyl-d14	70.0	ŧ	11/12/1999	33-141	pll	717	1646	SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 552786

Date Received: 11/01/1999 Time Received: 15:20

WDNR Cert. No. 999447130

Job No.: 99.12079

11/16/1999

Sample Description: CCCI/TP-5-1; 7'

CCCI; 17094

Date Taken: 10/28/1999 Time Taken: 13:52 IEPA Cert. No. 100221

Parameter	Results		Units	Date of	Method	Analys	t Bat	ch No.	Aı	nalytical
				Analysıs	PQL		Pre	/Run		Method
Cyanide, total	<0 28		mg/kg dw	11/10/1999	0.28	јrr		680	SV	9012A
Solids, Total	90.7		*	11/10/1999	0.1	gmg		3120	SN.	1 2540
TCLP, ZHE Volatiles Prep	leached			11/02/1999		nbk	650		SW	1311
TCLP Metals Extraction	leached			11/02/1999		nbk		1067	SW	1311
TCLP-Arsenic, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4609	SW	6010B
TCLP-Barium, ICP	<0.1	MX	mg/L	11/11/1999	0.020	kdw	2764	4611	SW	6010B
TCLP-Cadmium, ICP	<0.05	MX	mg/L	11/11/1999	0.010	kdw	2764	5493	SW	6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2764	4593	SW	6010B
TCLP-Lead, ICP	21.1		mg/L	, 11/11/1999	0.200	kdw	2764	4799	SW	6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4415	SW	6010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1999	0.050	kdw	2764	4799	SW	6010B
TCLP Organic Prep	leached			11/02/1999		nbk		551	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		усе	475		SW	3540C
PCBs 8082 NonAqueous		мх								
PCB-1016	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1221	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1232	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1242	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1248	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1254	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1260	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
Surr: Tetrachloroxylene (TCX)	83.0		*	11/14/1999	59-118	tls	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	80.0		*	11/14/1999	55-132	tls	475	889	SW	8082
Prep, BNA Extract (TCLP)	extracted		,	11/03/1999		rap	717		SW	3510C

 $\ensuremath{\mathsf{MX}}$: Dilution required due to sample matrix, analyte is not detected.



11/16/1999

Sample No. : 552786

Job No.: 99.12079

Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

Sample Description: CCCI/TP-5-1; 7'

CCCI; 17094

10/28/1999

Date Received: 11/01/1999 Time Received: 15:20 WDNR Cert. No. 999447130 Date Taken: 10/28, Time Taken: 13:52 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analys		ch No. ep/Run	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0.10	mg/L	11/12/1999	0.10	p11	717	1646	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-m&p Cresol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Pentachlorophenol	<0.50	'mg/L	11/12/1999	0.50	p11	717	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	717	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B ,
Surr: Phenol-d6	30.5	ŧ	11/12/1999	10-94	p11	717	1646	SW 8270B
Surr: 2-Fluorophenol	43.0	*	11/12/1999	21-100	pll	717	1646	SW 8270B
Surr: 2,4,6-Tribromophenol	72.5	*	11/12/1999	10-123	pll	717	1646	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	0.11	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-Chlorobenzene	<0 020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/L	11/11/1999	0.40	mjo	650	3276	SW 8260B
TCLP-Tetrachloroethene	<0.020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-Trichloroethene	0.19	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/11/1999	0.020	mjo	650	3276	SW 8260B
Surr: Dibromofluoromethane	94.0	* '	11/11/1999	75-130	mjo	650	3276	SW 8260B
Surr: Toluene-d8	96.0	ŧ	11/11/1999	85-117	mjo	650	3276	SW 8260B
Surr: Bromofluorobenzene	90.0	*	11/11/1999	80-116	mjo	650	3276	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552786

Job No.: 99.12079

Sample Description: CCCI/TP-5-1; 7'

CCCI; 17094

Date Taken: 10/28/1999 Time Taken: 13:52

7

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run	Analytical Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0.10	p11	717	1646	SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/12/1999	0.10	p11	717	1646	SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
Surr: Nitrobenzene-d5	67.0	*	11/12/1999	35-114	pll	717	1646	SW 8270B
Surr. 2-Fluorobiphenyl	68.0	*	11/12/1999	43-116	płl	717	1646	SW 8270B
Surr: Terphenyl-d14	72.0	ŧ	11/12/1999	33-141	pll	717	1646	SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Sample No. : 552787

11/16/1999

Westmont, IL 60559 Job No.: 99.12079

Sample Description: CCCI/TP-6-1; 7'

CCCI; 17094

Date Taken: 10/29/1999
Time Taken: 08:28
IEPA Cert. No. 100221
Date Received: 11/01/1999
Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of	Method	Analyst	Batch No	Analytical
				Analysis	PQL		Prep/Run	Method
Cyanide, total	0 46		mg/kg dw	11/10/1999	0 36	ŋrr	680	SW 9012A
Solids, Total	70.3		*	11/10/1999	0.1	gmg	312	SM 2540
TCLP, ZHE Volatiles Prep	leached			11/02/1999		nbk	650	SW 1311
TCLP Metals Extraction	leached			11/02/1999		nbk	106	7 SW 1311
TCLP-Arsenic, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764 460	SW 6010B
TCLP-Barium, ICP	0.394		mg/L	11/11/1999	0.020	kdw	2764 4611	SW 6010B
TCLP-Cadmium, ICP	<0.05	MX	mg/L	11/11/1999	0 010	kdw	2764 5493	SW 6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0 040	kdw	2764 4593	SW 6010B
TCLP-Lead, ICP	<1.0	MX	mg/L	11/11/1999	0.200	kdw	2764 4799	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422 1284	SW 7470A
TCLP-Selenium, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764 4415	SW 6010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1999	0.050	kdw	2764 4799	SW 6010B
TCLP Organic Prep	leached			11/02/1999		nbk	551	SW 1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		jce	475	SW 3540C
PCBs 8082 NonAqueous								
PCB-1016	<71		ug/kg dw	11/14/1999	71	tls	475 889	SW 8082
PCB-1221	<71		ug/kg dw	11/14/1999	71	tls	475 889	SW 8082
PCB-1232	<71		ug/kg dw	11/14/1999	71	tls	475 889	SW 8082
PCB-1242	<71		ug/kg dw	11/14/1999	71	tls	475 889	SW 8082
PCB-1248	<71		ug/kg dw	11/14/1999	71	tls	475 889	SW 8082
PCB-1254	<71		ug/kg dw	11/14/1999	71	tls	475 889	SW 8082
PCB-1260	<71		ug/kg dw	11/14/1999	71	tls	475 889	SW 8082
Surr: Tetrachloroxylene (TCX)	99.0		ŧ	11/14/1999	59-118	tls ·	475 889	SW 8082
Surr: Decachlorobiphenyl (DCB)	113.0		ł	11/14/1999	55-132	tls '	175 889	SW 8082
Prep, BNA Extract (TCLP)	extracted			11/03/1999		rap :	717	SW 3510C

 $\ensuremath{\mathsf{MX}}$: Dilution required due to sample matrix, analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552787

Job No.: 99.12079

Sample Description:

CCCI/TP-6-1; 7' CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 08:28

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No.	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-m&p Cresol	<0.10	mg/L	11/12/1999	0.10	p11	717	1646	SW 8270B
TCLP-Pentachlorophenol	<0.50	mg/L	11/12/1999	0 50	p11	717	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	717	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
Surr: Phenol-d6	30.5	1	11/12/1999	10-94	pll	717	1646	SW 8270B
Surr: 2-Fluorophenol	47.5	*	11/12/1999	21-100	pll	717	1646	SW 8270B
Surr: 2,4,6-Tribromophenol	83.0	*	11/12/1999	10-123	pll	717	1646	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/12/1999	0 020	mjo	650	3284	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Methyl Ethyl Ketone	< 0.40	mg/L	11/12/1999	0.40	mjo	650	3284	SW 8260B
TCLP-Tetrachloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Trichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/12/1999	0.020	ຫງ໐	650	3284	SW 8260B
Surr: Dibromofluoromethane	92.0	ŧ	11/12/1999	75-130	mjo	650	3284	SW 8260B
Surr: Toluene-d8	102.0	ŧ	11/12/1999	85-117	mjo	650	3284	SW 8260B
Surr: Bromofluorobenzene	102.0	*	11/12/1999	80-116	mjo	650	3284	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 552787

Job No.: 99.12079

11/16/1999

Sample Description: CCCI/TP-6-1; 7'

CCCI; 17094

Date Taken: 10/29/1999 D
Time Taken: 08:28 T
IEPA Cert. No. 100221 W

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run	Analytical Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0.10	p11	717	1646	SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/12/1999	0 10	pll	717	1646	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Pyridine	<0 10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
Surr. Nitrobenzene-d5	75.0	*	11/12/1999	35-114	pll	717	1646	SW 8270B
Surr: 2-Fluorobiphenyl	72.0	•	11/12/1999	43-116	pll	717	1646	SW 8270B
Surr· Terphenyl-d14	76.0	ş	11/12/1999	33-141	pll	717	1646	SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 11/16/1999

Sample No. : 552788

Job No.: 99.12079

Sample Description: CCCI/TP-7-1; 7'

CCCI; 17094

Date Taken: 10/29/1999
Time Taken: 09:12

Date Received: 11/01/1999
Time Received: 15:20

IEPA Cert. No. 100221 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analys		ch No p/Run	A	nalytical Method
Cyanide, total	<0.31		mg/kg dw	11/10/1999	0.31	jrr		680	SI	₹ 9012A
Solids, Total	81.8		*	11/10/1999	0.1	gmg		3120	SI	1 2540
TCLP, ZHE Volatiles Prep	leached			11/02/1999		nbk	650		SI	V 1311
TCLP Metals Extraction	leached			11/02/1999		nbk		1067	SV	1311
TCLP-Arsenic, ICP	<1.0	MX	mg/L	11/11/1999	0 20	kdw	2764	4609	SV	6010B
TCLP-Barium, ICP	0.161		mg/L	11/11/1999	0.020	kdw	2764	4611	S	6010B
TCLP-Cadmium, ICP	< 0 05	MX	mg/L	11/11/1999	0.010	kdw	2764	5493	Sh	6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2764	4593	SW	6010B
TCLP-Lead, ICP	<1.0	MX	mg/L	11/11/1999	0.200	kdw	2764	4799	SW	6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4415	SW	6010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1999	0.050	kdw	2764	4799	SW	6010B
TCLP Organic Prep	leached			11/02/1999		nbk		551	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		jce	475		SW	3540C
PCBs 8082 NonAqueous		ΜX								
PCB-1016	<300		ug/kg dw	11/14/1999	61	tls	475	889	SW	8082
PCB-1221	<300		ug/kg dw	11/14/1999	61	tls	475	889	SW	8082
PCB-1232	<300		ug/kg dw	11/14/1999	61	tls	475	889	SW	8082
PCB-1242	<300		ug/kg dw	11/14/1999	61	tls	475	889	SW	8082
PCB-1248	<300		ug/kg dw	11/14/1999	61	tls	475	889	SW	8082
PCB-1254	<300		ug/kg dw	11/14/1999	61	tls	475	889	SW	8082
PCB-1260	<300		ug/kg dw	11/14/1999	61	tls	475	889	SW	8082
Surr: Tetrachloroxylene (TCX)	109.0		Ł	11/14/1999	59-118	tls	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	113.0		ŧ	11/14/1999	55-132	tls	475	889	SW	8082
Prep, BNA Extract (TCLP)	extracted			11/03/1999		rap	717		sw	3510C

 $\ensuremath{\text{MX}}$: Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Sample No. : 552788

11/16/1999

Westmont, IL 60559

Job No.: 99.12079

Sample Description:

CCCI/TP-7-1; 7'

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 09:12

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		ch No. p/Run	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	< 0 10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-map Cresol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Pentachlorophenol	<0.50	mg/L	11/12/1999	0 50	pll	717	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0 50	pll	717	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
Surr: Phenol-d6	33.0	*	11/12/1999	10-94	pll	717	1646	SW 8270B
Surr: 2-Fluorophenol	47.5	*	11/12/1999	21-100	pll	717	1646	SW 8270B
Surr: 2,4,6-Tribromophenol	61.0	*	11/12/1999	10-123	pll	717	1646	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	<0.020	mg/L	11/12/1999	0.020	m30	650	3284	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/12/1999	0 020	mjo	650	3284	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/12/1999	0 020	mjo	650	3284	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/L	11/12/1999	0.40	mjo	650	3284	SW 8260B
TCLP-Tetrachloroethene	<0.020	mg/L	11/12/1999	0 020	mjo	650	3284	SW 8260B
TCLP-Trichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
TCLP-Vinyl Chloride	<0 020	mq/L	11/12/1999	0.020	mjo	650	3284	SW 8260B
Surr: Dibromofluoromethane	88.0	*	11/12/1999	75-130	mjo	650	3284	SW 8260B
Surr: Toluene-d8	94 0	ŧ	11/12/1999	85-117	-	650	3284	SW 8260B
Surr: Bromofluorobenzene	88.0	*	11/12/1999	80-116		650	3284	SW 8260B
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Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552788

Job No.: 99.12079

Sample Description: CCCI/TP-7-1; 7'

CCCI; 17094

Date Taken: 10/29/1999
Time Taken: 09:12

IEPA Cert. No. 100221

Date Received: 11/01/1999 Time Received: 15:20

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst Batch No. Prep/Run		Analytical Method	
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Hexachloroethane	<0 10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Hexachlorobutadiene	<0 10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0 10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Hexachlorobenzene	<0 10	mg/L	11/12/1999	0.10	pll	717	1646	SW 8270B
TCLP-Pyridine	<0 10	mg/L	11/12/1999	0.10	pli	717	1646	SW 8270B
Surr: Nitrobenzene-d5	72 0	*	11/12/1999	35-114	pl1	717	1646	SW 8270B
Surr: 2-Fluorobiphenyl	72 0	*	11/12/1999	43-116	pll	717	1646	SW 8270B
Surr: Terphenyl-d14	73 0	ł	11/12/1999	33-141	pll	717	1646	SW 8270B
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Page 13 of 45



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552789

Job No.: 99.12079

Sample Description: CCCI/TP-8-1; 7'

CCCI; 17094

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Date Taken: 10/29/1999 Time Taken: 10:05 IEPA Cert. No. 100221

Date Received: 11/01/1999 Time Received: 15:20 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of	Method	Analyst			A	nalytical
				Analysıs	PQL		Pre	o/Run		Method
Cyanide, total	<0 29		mg/kg dw	11/10/1999	0.29	ŋrr		680	SI	₩ 9012A
Solids, Total	86.3		ł	11/10/1999	0.1	gmg		3120	SI	4 2540
TCLP, ZHE Volatiles Prep	leached			11/03/1999		nbk	651		sı	V 1311
TCLP Metals Extraction	leached			11/02/1999		nbk		1067	S	v 1311
TCLP-Arsenic, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4609	S	6010B
TCLP-Barium, ICP	<0.1	MX	mg/L	11/11/1999	0.020	kdw	2764	4611	SV	6010B
TCLP-Cadmium, ICP	<0.05	MX	mg/L	11/11/1999	0.010	kdw	2764	5493	S₩	6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2764	4593	SW	6010B
TCLP-Lead, ICP	<1.0	MX	mg/L	11/11/1999	0.200	kdw	2764	4799	SM	6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	<1.0	MX	mg/L	11/11/1999	0 20	kdw	2764	4415	SW	6010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1999	0.050	kdw	2764	4799	SW	6010B
TCLP Organic Prep	leached			11/02/1999		nbk		551	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		усе	475		SW	3540C
PCBs 8082 NonAqueous		мх								
PCB-1016	<290		ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1221	<290		ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1232	<290		ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1242	<290		ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1248	<290		ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1254	<290		ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1260	<290		ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
Surr: Tetrachloroxylene (TCX)	88 0		ŧ	11/14/1999	59-118	tls -	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	92.0			11/14/1999	55-132	tls	475	889	SW	8082
Prep, BNA Extract (TCLP)	extracted		•	11/04/1999		rap '	718		sw	3510C

 $\ensuremath{\mathsf{MX}}$: Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 552789

Job No.: 99.12079

11/16/1999

Sample Description: CCCI/TP-8-1; 7'

CCCI; 17094

 Date Taken:
 10/29/1999
 Date Received:
 11/01/1999

 Time Taken:
 10:05
 Time Received:
 15:20

 IEPA Cert.
 No. 100221
 WDNR Cert.
 No. 999447130

Parameter	Results	Units	Date of	Method	Analyst	: Bat	ch No.	Analytical
			Analysis	PQL		Pre	p/Run	Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0.10	mg/L	11/12/1999	0.10	p11	718	1646	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-m&p Cresol	<0.10	mg/L	11/12/1999	0 10	p11	718	1646	SW 8270B
TCLP-Pentachlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	718	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0.50	p11	718	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
Surr: Phenol-d6	33.0	*	11/12/1999	10-94	pll	718	1646	SW 8270B
Surr: 2-Fluorophenol	49.5	ł	11/12/1999	21-100	pll	718	1646	SW 8270B
Surr · 2,4,6-Tribromophenol	58.0	*	11/12/1999	10-123	pll	718	1646	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/12/1999	0 020	mjo	651	3284	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/L	11/12/1999	0.40	mjo	651	3284	SW 8260B
TCLP-Tetrachloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Trichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
Surr: Dibromofluoromethane	92.0	1	11/12/1999	75-130	myo	651	3284	SW 8260B
Surr: Toluene-d8	96.0	ŧ	11/12/1999	85-117	-	651	3284	SW 8260B
Surr. Bromofluorobenzene	96.0	ŧ	11/12/1999	80-116	mjo	651	3284	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552789

Job No.: 99.12079

Sample Description: CCCI/TP-8-1; 7'

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 10:05 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		:h No. o/Run	Analytical Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachloroethane	< 0 10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Nitrobenzene	<0 10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-Hexachlorobutadiene	< 0 10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-Pyridine	< 0 10	mcj/L	11/12/1999	0 10	pll	718	1646	SW 8270B
Surr: Nitrobenzene-d5	71 0	3	11/12/1999	35-114	pli	/18	1646	SW 8270B
Surr: 2-Fluorobiphenyl	69.0	*	11/12/1999	43-116	pll	718	1646	SW 8270B
Surr: Terphenyl-d14	72 0	k	11/12/1999	33-141	pll	718	1646	SW 8270B



Mr. Tom Schwerha

KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

11/16/1999

Sample No. : 552790

Job No.: 99.12079

Sample Description:

CCCI/TP-9-1; 7'

CCCI; 17094

Date Taken: 10/29/1999

Time Taken: 10:20 IEPA Cert. No. 100221 Date Received: 11/01/1999 Time Received: 15:20

WDNR Cert. No. 999447130

Parameter	Results		Units	Date of	Method	Analyst	: Bat	ch No	Analytical
				Analysıs	PQL		Pre	p/Run	Method
Cyanide, total	84		mg/kg dw	11/10/1999	0.27	ŋrr		680	SW 9012A
Solids, Total	91.6		ŧ	11/10/1999	0 1	gmg		3120	SM 2540
TCLP, ZHE Volatiles Prep	leached			11/03/1999		nbk	651		SW 1311
TCLP Metals Extraction	leached			11/02/1999		nbk		1067	SW 1311
TCLP-Arsenic, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4609	SW 6010B
TCLP-Barıum, ICP	1.92		mg/L	11/11/1999	0 020	kdw	2764	4611	SW 6010B
TCLP-Cadmium, ICP	<0.05	MX	mg/L	11/11/1999	0.010	kdw	2764	5493	SW 6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2764	4593	SW 6010B
TCLP-Lead, ICP	<1.0	MX	mg/L	11/11/1999	0.200	kdw	2764	4799	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422	1284	SW 7470A
TCLP-Selenium, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4415	SW 6010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1999	0 050	kdw	2764	4799	SW 6010B
TCLP Organic Prep	leached			11/02/1999		nbk		551	SW 1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		jce	475		SW 3540C
PCBs 8082 NonAqueous		мх							
PCB-1016	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW 8082
PCB-1221	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW 8082
PCB-1232	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW 8082
PCB-1242	<280		ug∕kg d₩	11/14/1999	55	tls	475	889	SW 8082
PCB-1248	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW 8082
PCB-1254	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW 8082
PCB-1260	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW 8082
Surr: Tetrachloroxylene (TCX)	97.0		ŧ	11/14/1999	59-118	tls	475	889	SW 8082
Surr: Decachlorobiphenyl (DCB)	89.0		ŧ	11/14/1999	55-132	tls	475	889	SW 8082
Prep, BNA Extract (TCLP)	extracted			11/04/1999.		rap	718		SW 3510C

MX : Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552790

Job No.: 99.12079

Sample Description:

CCCI/TP-9-1; 7'

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 10:20 IEPA Cert. No. 100221

Date Received: 11/01/1999 Time Received: 15:20 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of	Method	Analyst	Bat	ch No.	Analytical
			Analysıs	PQL	PQL		p/Run	Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-m&p Cresol	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Pentachlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	718	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	718	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
Surr: Phenol-d6	32.5	*	11/12/1999	10-94	pll	718	1646	SW 8270B
Surr: 2-Fluorophenol	47.5	*	11/12/1999	21-100	pll	718	1646	SW 8270B
Surr: 2,4,6-Tribromophenol	72.5	* '	11/12/1999	10-123	pll	718	1646	SW 8270B
TCLP-VOLATILES 8260	MX	3						
TCLP-Benzene	<0.050	mg/L	11/13/1999	0.020	mjo	651	3285	SW 8260B
TCLP-Carbon Tetrachloride	<0.050	mg/L	11/13/1999	0.020	mjo	651	3285	SW 8260B
TCLP-Chlorobenzene	<0.050	mg/L	11/13/1999	0.020	mjo	651	3285	SW 8260B
TCLP-Chloroform	<0.050	mq/L	11/13/1999	0.020	ກງວ	651	3285	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.050	mg/L	11/13/1999	0 020	- πე <i>ο</i>	651	3285	SW 8260B
TCLP-1,2-Dichloroethane	<0.050	mg/L	11/13/1999	0.020	mjo	651	3285	SW 8260B
TCLP-1,1-Dichloroethene	<0.050	mg/L	11/13/1999	0.020	mjo	651	3285	SW 8260B
TCLP-Methyl Ethyl Ketone	<1.0	mg/L	11/13/1999	0.40	mjo	651	3285	SW 8260B
TCLP-Tetrachloroethene	<0.050	mg/L	11/13/1999	0.020	ຫງວ	651	3285	SW 8260B
TCLP-Trichloroethene	<0.050	mg/L	11/13/1999	0.020	mjo	651	3285	SW 8260B
TCLP-Vinyl Chloride	<0.050	mg/L	11/13/1999	0.020	mjo (651	3285	SW 8260B
Surr: Dibromofluoromethane	104.0	*	11/13/1999	75-130	mjo (651	3285	SW 8260B
Surr: Toluene-d8	106.0	3	11/13/1999	85-117	mjo (651	3285	SW 8260B
Surr: Bromofluorobenzene	102.0	*	11/13/1999	80-116	mjo (551	3285	SW 8260B

MX : Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 552790

Job No.: 99.12079

11/16/1999

Sample Description: CCCI/TP-9-1; 7' CCCI; 17094

Date Taken: 10/29/1999

Time Taken: 10:20 IEPA Cert. No. 100221

Parameter	Results	Units	•		•		Analyst Batch No. Prep/Run	
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachloroethane	<0 10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
Surr: Nitrobenzene-d5	74.0	*	11/12/1999	35-114	pll	718	1646	SW 8270B
Surr: 2-Fluorobiphenyl	69.0	*	11/12/1999	43-116	pll	718	1646	SW 8270B
Surr: Terphenyl-d14	74.0	ŧ	11/12/1999	33-141	pll	718	1646	SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 11/16/1999

Sample No. : 552791

Job No.: 99.12079

Sample Description:

CCCI/TP-10-1; 2-3'

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 11:27 IEPA Cert. No. 100221 Date Received: 11/01/1999

Time Received: 15:20 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analys		ch No. p/Run	A	nalytıcal Method
Cyanide, total	<0.29	mg∕kg d	w 11/10/1999	0 29]rr		680	SI	W 9012A
Solids, Total	85.8	*	11/10/1999	0 1	gmg		3120	SI	M 2540
TCLP, ZHE Volatiles Prep	leached		11/03/1999		nbk	651		SI	w 1311
TCLP Metals Extraction	leached		11/02/1999		nbk		1067	SI	W 1311
TCLP-Arsenic, ICP	<1.0	MX mg/L	-11/11/1999	0 20	kdw	2764	4609	S	√ 6010B
TCLP-Barium, ICP	<0.1	MX mg/L	11/11/1999	0.020	kdw	2764	4611	S	√ 6010B
TCLP-Cadmium, ICP	<0.05	MX mg/L	11/11/1999	0.010	kdw	2764	5493	S	4 6010B
TCLP-Chromium, ICP	<0.2	MX mg/L	11/11/1999	0.040	kdw	2764	4593	S¥	√ 6010B
TCLP-Lead, ICP	<1.0	MX mg/L	11/11/1999	0.200	kdw	2764	4799	SW	# 6010B
TCLP-Mercury, CVAA	<0.0002	mg/L	11/08/1999	0 0004	vgm	1422	1284	SW	1 7470A
TCLP-Selenium, ICP	<1.0	MX mg/L	11/11/1999	0.20	kdw	2764	4415	SW	6010B
TCLP-Silver, ICP	<0.2	MX mg/L	11/11/1999	0.050	kdw	2764	4799	SW	6010B
TCLP Organic Prep	leached		11/02/1999		лbk		551	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE		11/03/1999		усе	475		SW	3540C
PCBs 8082 NonAqueous	i	мх							
PCB-1016	<120	ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1221	<120	ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1232	<120	ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1242	<120	ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1248	<120	ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1254	<120	ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
PCB-1260	<120	ug/kg dw	11/14/1999	58	tls	475	889	SW	8082
Surr: Tetrachloroxylene (TCK)	96.0	*	11/14/1999	59-118	tls	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	98.0	¥	11/14/1999	55-132	tls	475	889	SW	8082
Prep, BNA Extract (TCLP)	extracted		11/04/1999		rap	718		SW	3510C

MX : Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES**

414 Plaza Drive Ste. 106

Westmont, IL 60559

11/16/1999

Sample No. : 552791

Job No.: 99.12079

CCCI/TP-10-1; 2-3' Sample Description:

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 11:27

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analys		ch No. p/Run	Λπalytıcal Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0 10	mg/L	11/12/1999	0.10	p11	718	1646	SW 8270B
TCLP-o-Cresol	<0 10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-m&p Cresol	< 0 10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Pentachlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	718	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	718	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0 10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
Surr: Phenol-d6	32.5	ŧ	11/12/1999	10-94	pll	718	1646	SW 8270B
Surr: 2-Fluorophenol	48 5	ŧ	11/12/1999	21-100	pll	718	1646	SW 8270B
Surr: 2,4,6-Tribromophenol	72.0	*	11/12/1999	10-123	pll	718	1646	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,4-Dichlorobenzene	<0 020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/L	11/12/1999	0.40	mjo	651	3284	SW 8260B
TCLP-Tetrachloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Trichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Vinyl Chloride	<0 020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
Surr: Dibromofluoromethane	96.0	ŧ	11/12/1999	75~130	mjo	651	3284	SW 8260B
Surr: Toluene-d8	108.0	*	11/12/1999	85~117	mjo	651	3284	SW 8260B
Surr: Bromofluorobenzene	108 0	*	11/12/1999	80-116	mjo	651	3284	SW 8260B



Mr. Tom Schwerha

11/16/1999

KRIKAU, PYLES, RYSIEWICZ &

Sample No. : 552791

ASSOCIATES

414 Plaza Drive Ste. 106 Westmont, IL 60559

Job No.: 99.12079

Sample Description:

CCCI/TP-10-1; 2-3'

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 11:27 Date Received: 11/01/1999 Time Received: 15:20

Time Taken: 11:27
IEPA Cert. No. 100221

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	yst Batch No. Prep/Run		Analytical Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/12/1999	0.10	pl1	718	1646	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0.10	mg∖r	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachlorobenzene	<0 10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
Surr: Nitrobenzene-d5	72.0	ł	11/12/1999	35-114	pll	718	1646	SW 8270B
Surr: 2-Fluorobiphenyl	70.0	ŧ	11/12/1999	43-116	pll	718	1646	SW 8270B
Surr: Terphenyl-d14	69.0	ŧ	11/12/1999	33-141	pll	718	1646	SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 11/16/1999

Sample No. : 552792

Job No.: 99.12079

Sample Description: CCCI/TP-12-1; 3-4'

CCCI; 17094

Date Taken: 10/29/1999 Date Received: 11/01/1999 Time Taken: 11:49 Time Received: 15:20

IEPA Cert. No. 100221 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of	Method	Analys			Ar	nalytical
			, .	Analysıs	PQL		Pre	/Run		Method
Cyanide, total	<0 29		mg/kg dw	11/10/1999	0.29	jrr		680	Sh	9012A
Solids, Total	87 7		*	11/10/1999	0.1	gmg		3120	SM	1 2540
TCLP, ZHE Volatiles Prep	leached		¢	11/03/1999		nbk	651		SW	1311
TCLP Metals Extraction	leached			11/02/1999		nbk		1067	SW	1311
TCLP-Arsenic, ICP	<1 0	MX	mg/L	11/11/1999	0.20	kdw	2764	4609	SW	6010B
TCLP-Barium, ICP	0 104		mg/L	11/11/1999	0.020	kdw	2764	4611	SW	6010B
TCLP-Cadmium, ICP	< 0 05	MX	mg/L	11/11/1999	0.010	kdw	2764	5493	SW	6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2764	4593	SW	6010B
TCLP-Lead, ICP	<1.0	MX	mg/L	11/11/1999	0.200	kdw	2764	4799	SW	6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	<1.0	MX	mg/L	11/11/1999	0.20	kdw	2764	4415	SW	6010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1999	0.050	kdw	2764	4799	SW	6010B
TCLP Organic Prep	leached			11/02/1999		nbk		551	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		јсе	475		SW	3540C
PCBs 8082 NonAqueous										
PCB-1016	<5,700		ug/kg dw	11/14/1999	57	tls	475	889	S₩	8082
PCB-1221	<5,700		ug/kg dw	11/14/1999	57	tls	475	889	SW	8082
PCB-1232	<5,700		ugi/kg dw	11/14/1999	57	tls	475	889	SW	8082
PCB-1242	19,400		ug/kg dw	11/14/1999	57	tls	475	889	SW	8082
PCB-1248	<5,700		ug/kg dw	11/14/1999	57	tls	475	889	SW	8082
PCB-1254	8,890		ug/kg dw	11/14/1999	57	tls	475	889	SW	8082
PCB-1260	<5,700		ug/kg dw	11/14/1999	57	tls	475	889	SW	8082
Surr: Tetrachloroxylene (TCX)	Diluted o	ut		11/14/1999	59~118	tls	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	Diluted o	ut		11/14/1999	55-132	tls	475	889	SW	8082
Prep, BNA Extract (TCLP)	extracted			11/04/1999		rap	718		SW	3510C

MX : Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Sample No. : 552792

Job No.: 99.12079

11/16/1999

Westmont, IL 60559

Sample Description:

CCCI/TP-12-1; 3-4'

CCCI; 17094

Date Taken: 10/29/1999

Time Taken: 11:49 IEPA Cert. No. 100221 Date Received: 11/01/1999 Time Received: 15:20

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analys		ch No. p/Run	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0.10	mg/L	11/12/1999	0.10	p11	718	1646	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/12/1999	0.10	p11	718	1646	SW 8270B
TCLP-map Cresol	<0 10	mg/L	11/12/1999	0.10	p11	718	1646	SW 8270B
TCLP-Pentachlorophenol	<0 50	mg/L	11/12/1999	0.50	p11	718	1646	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/12/1999	0.50	pll	718	1646	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/12/1999	0.10	p11	718	1646	SW 8270B
Surr: Phenol-d6	32.5	ŧ	11/12/1999	10-94	p11	718	1646	SW 8270B
Surr: 2-Fluorophenol	46.0	*	11/12/1999	21-100	pll	718	1646	SW 8270B
Surr: 2,4,6-Tribromophenol	77.5	ŧ	11/12/1999	10-123	pll	718	1646	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/12/1999	0.020	m30	651	3284	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Methyl Ethyl Ketone	<0.40	mq/L	11/12/1999	0.40	mjo	651	3284	SW 8260B
TCLP-Tetrachloroethene	0.079	mg/L	11/12/1999	0.020	myo	651	3284	SW 8260B
TCLP-Trichloroethene	1.0	mq/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/12/1999	0.020	mjo	651	3284	SW 8260B
Surr: Dibromofluoromethane	98.0	*	11/12/1999	75-130	mjo	651	3284	SW 8260B
Surr: Toluene-d8	110.0	*	11/12/1999	85-117	m jo	651	3284	SW 8260B
Surr: Bromofluorobenzene	104.0	ł	11/12/1999	80-116	mjo	651	3284	SW 8260B
					•			



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552792

Job No.: 99.12079

Sample Description:

CCCI/TP-12-1; 3-4'

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 11:49 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. /Run	Analytical Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Nitrobenzene	<0 10	mg/L	11/12/1999	0 10	pll	718	1646	SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/12/1999	0.10	p11	718	1646	SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/12/1999	0.10	pll	718	1646	SW 8270B
Surr: Nitrobenzene-d5	73.0	ŧ	11/12/1999	35-114	pll	718	1646	SW 8270B
Surr: 2-Fluorobiphenyl	70 0	¥	11/12/1999	43-116	pll	718	1646	SW 8270B
Surr: Terphenyl-d14	75.0	ł	11/12/1999	33-141	pll	718	1646	SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 11/16/1999

Sample No. : 552793

Job No.: 99.12079

Sample Description:

CCCI/TP-TB-1 CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 12:00 IEPA Cert. No. 100221 Date Received: 11/01/1999

Time Received: 15:20
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No Prep/Run	Analytical Method
VOLATILE COMPDS - 8260 AQUEOUS	5						
Acetone	<50	ug/L	11/10/1999	20	pll	3274	SW 8260B
Acrylonitrile	<5.0	ug/L	11/10/1999	5.0	pll	3274	SW 8260B
Benzene	<1 0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Bromobenzene	<1.0	ug/L	11/10/1999	1 0	pll	3274	SW 8260B
Bromochloromethane	<1.0	ug/L	11/10/1999	1 0	pll	3274	SW 8260B
Bromodichloromethane	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Bromoform	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Bromomethane	<2.0	ug/L	11/10/1999	2.0	pll	3274	SW 8260B
n-butylbenzene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
sec-butylbenzene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
tert-butylbenzene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Carbon Tetrachloride	<1.0	ug/L	11/10/1999	1 0	pll	3274	SW 8260B
Chlorobenzene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Chlorodibromomethane	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Chloroethane	<2.0	ug/L	11/10/1999	2.0	pll	3274	SW 8260B
Chloroform	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Chloromethane	<2.0	ug/L	11/10/1999	2.0	pll	3274	SW 8260B
2-Chlorotoluene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
4-Chlorotoluene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,2-Dibromo-3-chloropropane	<2.0	ug/L	11/10/1999	2.0	pll	3274	SW 8260B
1,2-Dibromoethane	<1.0	սց/Լ	11/10/1999	1.0	pll	3274	SW 8260B
1,2-Dichlorobenzene	<1 0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,3-Dichlorobenzene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,4-Dichlorobenzene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Dibromomethane	<5.0	ug/L	11/10/1999	5.0	pll	3274	SW 8260B
Dichlorodifluoromethane	<5.0	ug/L	11/10/1999	5.0	pll	3274	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 552793

Job No.: 99.12079

Sample Description:

CCCI/TP-TB-1 CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 12:00 IEPA Cert. No. 100221

Date Received: 11/01/1999 Time Received: 15:20

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of	Method	Analyst	Batch No	Analytical
			Analysis	PQL		Prep/Run	Method
1,1-Dichloroethane	<1 0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,2-Dichloroethane	<1 0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,1-Dichloroethene	<1 0	ug/L	11/10/1999	1 0	pll	3274	SW 8260B
cis-1,2-Dichloroethene	<1 0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
trans-1,2-Dichloroethene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,1-Dichloropropene	<1.0	ug/L	11/10/1999	1.0	llq	3274	SW 8260B
1,2-Dichloropropane	<1 0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
1,3-Dichloropropane	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
2,2-Dichloropropane	<1 0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
cis-1,3-Dichloropropene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
trans-1,3-Dichloropropene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Ethyl Benzene	<1 0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
2-Hexanone	<20	ug/L	11/10/1999	20	pll	3274	SW 8260B
Hexachlorobutadiene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Iodomethane	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Isopropylbenzene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
p-Isopropyltoluene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Methyl Ethyl Ketone	<50	ug/L	11/10/1999	20	p11	3274	SW 8260B
4-Methyl-2-pentanone (MIBK)	<20	ug/L	11/10/1999	20	p11	3274	SW 8260B
Methyl tert butyl ether (MTBE)	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Methylene chloride	<5.0	ug/L	11/10/1999	5.0	pll	3274	SW 8260B
Naphthalene	<2.0	ug/L	11/10/1999	2.0	p11	3274	SW 8260B
n-propylbenzene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Styrene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
1,1,1,2-Tetrachloroethane	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
1,1,2,2-Tetrachloroethane	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Tetrachloroethene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

11/16/1999

Sample No. : 552793

Job No.: 99.12079

Sample Description:

CCCI/TP-TB-1

CCCI; 17094

Date Taken: 10/29/1999 Time Taken: 12:00

IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Toluene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,2,3-Trichlorobenzene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,2,4-Trichlorobenzene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,1,1-Trichloroethane	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,1,2-Trichloroethane	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Trichloroethene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
Trichlorofluoromethane	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,2,3-Trichloropropane	<5.0	ug/L	11/10/1999	5.0	pll	3274	SW 8260B
1,2,4-Trimethylbenzene	<1.0	ug/L	11/10/1999	1.0	pll	3274	SW 8260B
1,3,5-Trimethylbenzene	<1.0	ug/L	11/10/1999	1.0	p11	3274	SW 8260B
Vinyl Chloride	<2.0	ug/L	11/10/1999	2.0	pll	3274	SW 8260B
Xylenes, total	<3.0	ug/L	11/10/1999	3 0	pll	3274	SW 8260B
Surr: Dibromofluoromethane	98.0	% .	11/10/1999	75-130	pll	3274	SW 8260B
Surr: Toluene-d8	110.0	ŧ	11/10/1999	85-117	pll	3274	SW 8260B
Surr: 4-Bromofluorobenzene	116.0	\$ ·	11/10/1999	80-116	pll	3274	SW 8260B



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Run	CCV		
	Batch	True	Conc.	Percent
Analyte	Number	Conc	Pound	Recovery
Cyanide, total	680	0.07	0.071	101.4
Cyanide, total	680	0.07	0.073	104.3
Cyanide, total	680	0.07	0.072	102.9
TCLP-Arsenic, ICP	4609	2.00	1.96	98 0
TCLP-Barium, ICP	4611	2.00	1 96	98.0
TCLP-Cadmium, ICP	5493	1 00	0.973	97.3
TCLP-Chromium, ICP	4593	2.00	1.96	98 0
TCLP-Lead, ICP	4799	2.00	1.96	98.0
TCLP-Mercury, CVAA	1284	0.0025	0.00264	105.6
TCLP-Selenium, ICP	4415	2 00	1.97	98.5
PCBs 8082 NonAqueous				
PCB-1016	889	500	568	113.6
PCB-1260	889	500	543	108.6
PCBs 8082 NonAqueous				
PCB-1016	889	500	561	112.2
PCB-1260	889	500	542	108.4
PCBs 8082 NonAqueous				
PCB-1016	889	500	553	110.6
PCB-1260	889	500	507	101.4
PCBs 8082 NonAqueous				
PCB-1016	889	500	547	109.4
PCB-1260	889	500	524	104.8

CCV - Continuing Calibration Verification



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

			-	
	Run	¿ CCV	{	
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
VOLATILE COMPDS - 8260 AQUEOUS				
Benzene	3274	50.0	51	102.0
Chloroform	3274	\$0.0	51	102.0
1,1-Dichloroethene	3274	50.0	57	114.0
1,2-Dichloropropane	3274	50.0	47	94.0
Ethyl Benzene	3274	50.0	56	112.0
Toluene	3274	50.0	52	104.0
Vinyl Chloride	3274	50.0	51	102 0
Xylenes, total	3274	150	175	116.7
TCLP-ACID COMPOUNDS 8270				
TCLP-2,4,6-Trichlorophenol	1646	50.0	53.0	106.0
TCLP-VOLATILES 8260				
TCLP-Benzene	3276	50.0	49	98.0
TCLP-Chloroform	3276	50.0	51	102.0
TCLP-1,1-Dichloroethene	3276	50.0	56	112.0
TCLP-Vinyl Chloride	3276	50.0	50	100.0
TCLP-VOLATILES 8260		d.	a	
TCLP-Benzene	3284	50.0	52.0	104.0
TCLP-Chloroform	3284	50.0	51.0	102.0
TCLP-1,1-Dichloroethene	3284	50.0	57.0	114.0
TCLP-Vinyl Chloride	3284	50.0	51.0	102.0
TCLP-VOLATILES 8260				
TCLP-VOLATILES 8260				
TCLP-Benzene	3285	50.0	46.0	92.0
TCLP-Chloroform	3285	50.0	46.0	92.0
TCLP-1,1-Dichloroethene	3285	50.0	45.0	90.0
TCLP-Vinyl Chloride	3285	50.0	54.0	108.0
TCLP BASE NEUTRAL COMPOUNDS				
TCLP-1,4-Dichlorobenzene	1646	50.0	52.0	104.0
TCLP-Hexachlorobutadiene	1646	50.0	55.0	110.0

CCV - Continuing Calibration Verification



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9012A
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9012A
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9012A
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9012A
Solids, Total		3120	<0.1	*	0.1	SM 2540
TCLP-Arsenic, ICP	2764	4606	<0.20	mg/L	0.20	SW 6010B
TCLP-Barium, ICP	2764	4608	<0.020	mg/L	0.020	SW 6010B
TCLP-Cadmium, ICP	2764	5490	<0.010	mg/L	0.010	SW 6010B
TCLP-Chromium, ICP	2764	4590	<0.040	mg/L	0.040	SW 6010B
TCLP-Lead, ICP	2764	4796	<0.200	mg/L	0.200	SW 6010B
TCLP-Mercury, CVAA	1422	1284	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Mercury, CVAA	1422	1284	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Selenium, ICP	2764	4412	<0.20	mg/L	0 20	SW 6010B
TCLP-Silver, ICP	2764	4796	<0.050	mg/L	0.050	SW 6010B
PCBs 8082 NonAqueous						SW 8082
PCB-1016	475	885	<50	ug/Kg	50	SW 8082
PCB-1221	475	885	<50	ug/Kg	50	SW 8082
PCB-1232	475	885	<50	ug/Kg	50	SW 8082
PCB-1242	475	885	<50	ug/Kg	50	SW 8082
PCB-1248	475	885	<50	ug/Kg	50	SW 8082
PCB-1254	475	885	<50	ug/Kg	50	SW 8082
PCB-1260	475	885	<50	ug/Kg	50	SW 8082
Surr: Tetrachloroxylene (TCX)	475	885	101.0	*	59-118	SW 8082
Surr: Decachlorobiphenyl (DCB)	475	885	106.0	ŧ	55-132	SW 8082
PCBs 8082 NonAqueous						SW 8082
PCB-1016	475	884	<50	ug/Kg	50	SW 8082
PCB-1221	475	884	<50	ug/Kg	50	SW 8082
PCB-1232	475	884	<50	ug/Kg	50	SW 8082
PCB-1242	475	884	<50	ug/Kg	50	SW 8082

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Prep Batch	Run Batch	Blank Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
PCB-1248	475	884	<50	ug/Kg	50	SW 8082
PCB-1254	475	884	<50	ug/Kg	50	SW 8082
PCB-1260	475	884	<50	ug/Kg	50	SW 8082
Surr: Tetrachloroxylene (TCX)	475	884	109.0	.*	59-118	SW 8082
Surr: Decachlorobiphenyl (DCB)	475	884	112.0	ŧ	55-132	SW 8082

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
VOLATILE COMPDS - 8260 AQUEOUS						SW 8260B
Acetone		3274	<50	ug/L	20	SW 8260B
Acrylonitrile		3274	<5.0	ug/L	5 0	SW 8260B
Benzene		3274	<1.0	ug/L	1.0	SW 8260B
Bromobenzene		3274	<1.0	ug/L	1.0	SW 8260B
Bromochloromethane		3274	<1.0	ug/L	1.0	SW 8260B
Bromodichloromethane		3274	<1 0	ug/L	1.0	SW 8260B
Bromoform		3274	<1.0	ug/L	1.0	SW 8260B
Bromomethane		3274	<2.0	ug/L	2 0	SW 8260B
n-butylbenzene		3274	<1.0	ug/L	1.0	SW 8260B
sec-butylbenzene		3274	<1.0	ug/L	1.0	SW 8260B
tert-butylbenzene		3274	<1.0	ug/L	1.0	5W 8260B
Carbon Tetrachloride		3274	<10	ug/L	1.0	SW 8260B
Chlorobenzene		3274	<1 0	ug/L	1.0	SW 8260B
Chlorodibromomethane		3274	<1.0	ug/L	1.0	SW 8260B
Chloroethane		3274	<2.0	ug/ե	2.0	SW 8260B
Chloroform		3274	<1.0	ug/L	1.0	SW 8260B
Chloromethane		3274	<2.0	ug/L	2.0	SW 8260B
2-Chlorotoluene		3274	<1.0	ug/L	1.0	SW 8260B
4-Chlorotoluene		3274	<1.0	ug/L	1.0	SW 8260B
1,2-Dibromo-3-chloropropane		3274	<2.0	ug/L	2.0	SW 8260B
1,2-Dibromoethane		3274	<1.0	ug/L	1.0	SW 8260B
1,2-Dichlorobenzene		3274	<1.0	ug/L	1.0	SW 8260B
1,3-Dichlorobenzene		3274	<1.0	ug/L	1.0	SW 8260B
1,4-Dichlorobenzene		3274	<1 0	ug/L	1.0	SW 8260B
Dibromomethane		3274	<5 0	ug/L	5.0	SW 8260B
Dichlorodifluoromethane		3274	<5.0	ug/L	5.0	SW 8260B
1,1-Dichloroethane		32/4	<1.0	ug/L	1 0	SW 8260B
1,2-Dichloroethane		3274	<1.0	ug/L	1.0	SW 8260B

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

Prep Run	Blank :							
. Batch Batch	Analysis	Reporting	Analytical					
Analyte Number Number	Results Un	its Limit	Method					
1,1-Dichloroethene 3274	<1.0 ug	/L 1.0	SW 8260B					
cis-1,2-Dichloroethene 3274	<1 0 ug,	/L 1.0	SW 8260B					
trans-1,2-Dichloroethene 3274	<10 ug,	/L 1.0	SW 8260B					
1,1-Dichloropropene 3274	<1 0 ug,	/L 1.0	SW 8260B					
1,2-Dichloropropane 3274	<1.0 ug/	'L 1.0	SW 8260B					
1,3-Dichloropropane 3274	<1 0 ug/	L 1.0	SW 8260B					
2,2-Dichloropropane 3274	<1 0 ug/	L 1.0	SW 8260B					
cis-1,3-Dichloropropene 3274	<1 0 ug/	L 1.0	SW 8260B					
trans-1,3-Dichloropropene 3274	<1.0 ug/	L 1.0	SW 8260B					
Ethyl Benzene 3274	<1.0 ug/	L 1.0	SW 8260B					
2-Hexanone 3274	<20 ug/	L 20	SW 8260B					
Hexachlorobutadiene 3274	<1.0 ug/	L 1.0	SW 8260B					
Iodomethane 3274	<1.0 ug/	L 1.0	SW 8260B					
Isopropylbenzene 3274	<1.0 ug/	L 1.0	SW 8260B					
p-Isopropyltoluene 3274	<1.0 ug/	L 1.0	SW 8260B					
Methyl Ethyl Ketone 3274	<20 ug/	L 20	SW 8260B					
Methyl tert butyl ether (MTBE) 3274	<10 4 ug/	L 1.0	SW 8260B					
Methylene chloride 3274	<5.0 ug/	L 5.0	SW 8260B					
Naphthalene 3274	<2.0 ug/	և 2.0	SW 8260B					
n-propylbenzene 3274	<1.0 ug/1	L 1.0	SW 8260B					
Styrene 3274	<1.0 ug/i	L 1.0	SW 8260B					
1,1,1,2-Tetrachloroethane 3274	<1.0 ug/l	L 1.0	SW 8260B					
1,1,2,2-Tetrachloroethane 3274	<1.0 ug/i	1.0	SW 8260B					
Tetrachloroethene 3274	<1.0 ug/I	1.0	SW 8260B					
Toluene 3274	<1.0 ug/I	1.0	SW 8260B					
1,2,3-Trichlorobenzene 3274	<1.0 ug/I	1.0	SW 8260B					
1,2,4-Trichlorobenzene 3274	<1.0 ug/L	1.0	SW 8260B					
1,1,1-Trichloroethane 3274	<1.0 ug/L	1.0	SW 8260B					
1,1,2-Trichloroethane 3274	<1.0 ug/L	1.0	SW 8260B					

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

			•			
	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
Trichloroethene		3274	<1.0	ug/L	1.0	SW 8260B
Trichlorofluoromethane		3274	<1.0	ug/L	1.0	SW 8260B
1,2,3-Trichloropropane		3274	<5.0	ug/L	5.0	SW 8260B
1,2,4-Trimethylbenzene		3274	<1.0	ug/L	1.0	SW 8260B
1,3,5-Trimethylbenzene		3274	<1.0	ug/L	1 0	SW 8260B
Vinyl Chloride		3274	<2.0	ug/L	2.0	SW 8260B
Xylenes, total		3274	<3.0	uq/L	3.0	SW 8260B
Surr Dibromofluoromethane		3274	84.0	*	75-130	SW 8260B
Surr: Toluene-d8		3274	104.0	ł	85-117	SW 8260B
Surr: 4-Bromofluorobenzene		3274	102.0	ş	80-116	SW 8260B
TCLP-ACID COMPOUNDS 8270						SW 8270B
TCLP-o-Cresol	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-m&p Cresol	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-Pentachlorophenol	717	1642	<0.50	mg/L	0.50	SW 8270B
TCLP-2,4,5-Trichlorophenol	717	1642	<0.50	mg/L	0 50	SW 8270B
TCLP-2,4,6-Trichlorophenol	717	1642	<0.10	mg/L	0.10	SW 8270B
Surr: Phenol-d6	717	1642	32.5	ŧ	10-94	SW 8270B
Surr: 2-Fluorophenol	717	1642	49.0	ŧ	21-100	SW 8270B
Surr: 2,4,6-Tribromophenol	717	1642	89.5	ł	10-123	SW 8270B
TCLP-ACID COMPOUNDS 8270						SW 8270B
TCLP-o-Cresol	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-m&p Cresol	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-Pentachlorophenol	718	1647	<0.50	mg/L	0.50	SW 8270B
TCLP-2,4,5-Trichlorophenol	718	1647	<0.50	mg/L	0.50	SW 8270B
TCLP-2,4,6-Trichlorophenol	718	1647	<0.10	mg/L	0.10	SW 8270B
Surr: Phenol-d6	718	1647	35.0	*	10-94	SW 8270B
Surr: 2-Fluorophenol	718	1647	52.5	ŧ	21-100	SW 8270B
Surr: 2,4,6-Tribromophenol	718	1647	84.5	ŧ	10-123	SW 8270B
TCLP-VOLATILES 8260				•		SW 8260B

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
TCLP-Benzene		3276	<1.0	ug/L	1.0	SW 8260B
TCLP-Carbon Tetrachloride		3276	<1.0	ug/L	1 0	SW 8260B
TCLP-Chlorobenzene		3276	<1.0	ug/L	1 0	SW 8260B
TCLP-Chloroform		3276	<1.0	ug/L	1.0	SW 8260B
TCLP-1,4-Dichlorobenzene		3276	<1.0	ug/L	1.0	SW 8260B
TCLP-1,2-Dichloroethane		3276	. <1.0 ,	ug/L	1.0	SW 8260B
TCLP-1,1-Dichloroethene		3276	<1.0	ug/L	1.0	SW 8260B
TCLP-Methyl Ethyl Ketone		3276	<50	ug/L	20	SW 8260B
TCLP-Tetrachloroethene		3276	<1.0	ug/L	1.0	SW 8260B
TCLP-Trichloroethene		3276	<1.0	ug/L	1.0	SW 8260B
TCLP-Vinyl Chloride		3276	<2.0	ug/L	2.0	SW 8260B
Surr: Dibromofluoromethane		3276	90.0	ł	75-130	SW 8260B
Surr: Toluene-d8		3276	108.0	ŧ	85-117	SW 8260B
Surr: Bromofluorobenzene		3276	110.0	*	80-116	SW 8260B
TCLP-VOLATILES 8260						SW 8260B
TCLP-Benzene		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-Carbon Tetrachloride		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-Chlorobenzene		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-Chloroform		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-1,4-Dichlorobenzene		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-1,2-Dichloroethane		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-1,1-Dichloroethene		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-Methyl Ethyl Ketone		3284	<20	ug/L	20	SW 8260B
TCLP-Tetrachloroethene		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-Trichloroethene		3284	<1.0	ug/L	1.0	SW 8260B
TCLP-Vinyl Chloride		3284	<2.0	ug/L	2.0	SW 8260B
Surr: Dibromofluoromethane		3284	92.0	ł	75-130	SW 8260B
Surr: Toluene-d8		3284	110.0	*	85-117	SW 8260B
Surr: Bromofluorobenzene		3284	116.0	*	80-116	SW 8260B

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
TCLP-VOLATILES 8260			•			SW 8260B
TCLP-Benzene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Carbon Tetrachloride		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Chlorobenzene		3285	<1.0	ug/L	1 0	SW 8260B
TCLP-Chloroform		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-1,4-Dichlorobenzene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-1,2-Dichloroethane		3285	<1 0	ug/L	1.0	SW 8260B
TCLP-1,1-Dichloroethene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Methyl Ethyl Ketone		3285	<20	ug/L	20	SW 8260B
TCLP-Tetrachloroethene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Trichloroethene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Vinyl Chloride		3285	<2.0	ug/L	2 0	SW 8260B
Surr: Dibromofluoromethane		3285	104.0	*	75-130	SW 8260B
Surr: Toluene-d8		3285	106.0	ŧ	85-117	SW 8260B
Surr: Bromofluorobenzene		3285	106.0	ŧ	80-116	SW 8260B
TCLP BASE NEUTRAL COMPOUNDS						SW 8270B
TCLP-1,4-Dichlorobenzene	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-Hexachloroethane	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-Nitrobenzene	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-Hexachlorobutadiene	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-2,4-Dinitrotoluene	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-Hexachlorobenzene	717	1642	<0.10	mg/L	0.10	SW 8270B
TCLP-Pyridine	717	1642	<0.10	mg/L	0.10	SW 8270B
Surr: Nitrobenzene-d5	717	1642	71.0	*	35-114	SW 8270B
Surr: 2-Fluorobiphenyl	717	1642	63.0	*	43-116	SW 8270B
Surr: Terphenyl-d14	717	1642	75.0	*	33-141	SW 8270B
TCLP BASE NEUTRAL COMPOUNDS						SW 82709
TCLP-1,4-Dichlorobenzene	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-Hexachloroethane 7	718	1647	<0.10	mg/L	0.10	SW 8270B

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Prep	Run	Blank			
	Batch	Batch	Analysıs		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
TCLP-Nitrobenzene	718	1647	<0.10	mg/L	0 10	SW 8270B
TCLP-Hexachlorobutadiene	718	1647	<0 10	mg/L	0 10	SW 8270B
TCLP-2,4-Dinitrotoluene	718	1647	<0.10	mg/L	0 10	SW 8270B
TCLP-Hexachlorobenzene	718	1647	<0.10	mg/L	0 10	SW 8270B
TCLP-Pyridine	718	1647	<0.10	mg/L	0.10	SW 8270B
Surr: Nitrobenzene-d5	718	1647	80.0	*	35-114	SW 8270B
Surr: 2-Fluorobiphenyl	718	1647	79.0	*	43-116	SW 8270B
Surr: Terphenyl-d14	718	1647	86 0	š	33-141	SW 8270B

Advisory Control Limits for Blanks:



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

	Prep	Run			
	Batch	Batch	True	Conc	LCS
Analyte	Number	Number	Conc	Found	% Recovery
Cyanıde, total		680	0.186	0.189	101 6
Cyanide, total		680	0 186	0.193	103 8
Cyanide, total		680	0 186	0.186	100 0
Cyanide, total		680	0.046	0 048	104.3
Cyanide, total		680	0 046	0.053	115 2
Cyanide, total		680	0.046	0.051	110 9
TCLP-Arsenic, ICP	2764	4606	1 00	1 02	102.0
TCLP-Barium, ICP	2764	4608	1 00	1.02	102 0
TCLP-Cadmium, ICP	2764	5490	0.500	0.509	101.8
TCLP-Chromium, ICP	2764	4590	1 00	1.01	101.0
TCLP-Lead, ICP	2764	4796	1.00	1.01	101.0
TCLP-Mercury, CVAA	1422	1284	0.0025	0 00252	100.8
TCLP-Mercury, CVAA	1422	1284	0.0025	0.00252	100.8
TCLP-Selenium, ICP	2764	4412	1 00	1 02	102 0
TCLP-Silver, ICP	2764	4796	0 500	0 478	95.6
PCBs 8082 NonAqueous			*		
PCB-1016	475	885	166.7	196.9	118.1
PCB-1260	475	885	166.7	184.2	110.5
Surr: Tetrachloroxylene (TCX)	475	885	100	99	99.0
Surr: Decachlorobiphenyl (DCB)	475	885	100	102	102.0
PCBs 8082 NonAqueous					
PCB-1016	475	884	166.7	194 0	116.4
PCB-1260	475	884	166.7	182.4	109.4
Surr: Tetrachloroxylene (TCX)	475	884	100	109	109.0
Surr: Decachlorobiphenyl (DCB)	475	884	100	110	110.0



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	% Recovery
VOLATILE COMPDS - 8260 AQUEOUS					
Benzene		3274	20.0	21	105 0
Chlorobenzene		3274	20.0	21	105.0
1,1-Dichloroethene		3274	20 0	23	115.0
Ethyl Benzene		3274	20.0	24	120.0
Toluene		3274	20 0	22	110 0
Trichloroethene		3274	20.0	25	125 0
Xylenes, total		3274	60.0	72	120.0
Surr · Dibromofluoromethane		3274	50 0	44	88.0
Surr: Toluene-d8		3274	50.0	51	102 0
Surr: 4-Bromofluorobenzene		3274	50.0	55	110.0
TCLP-ACID COMPOUNDS 8270					
TCLP-o-Cresol	717	1642	80	62	77 5
TCLP-m&p Cresol	717	1642	80	48	60.0
TCLP-Pentachlorophenol	717	1642	80	61	76.3
TCLP-2,4,5-Trichlorophenol	717	1642	80	61	76.3
TCLP-2,4,6-Trichlorophenol	717	1642	80	60	75.0
Surr: Phenol-d6	717	1642	200	66	33.0
Surr: 2-Fluorophenol	717	1642	200	96	48.0
Surr: 2,4,6-Tribromophenol	717	1642	200	165	82.5
TCLP-ACID COMPOUNDS 8270					
TCLP-o-Cresol	718	1647	80	57	71.3
TCLP-m&p Cresol	718	1647	80	51	63.8
TCLP-Pentachlorophenol	718	1647	80	56	70.0
TCLP-2,4,5-Trichlorophenol	718	1647	80	65	81.3
TCLP-2,4,6-Trichlorophenol	718	1647	80	65	81.3
Surr: Phenol-d6	718	1647	200	67	33.5
Surr: 2-Fluorophenol	718	1647	200	98	49.0
Surr: 2,4,6-Tribromophenol	718	1647	200	157	78.5
TCLP-VOLATILES 8260		-			
TCLP-Benzene		3276	20.0	21	105.0



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	Recovery
TCLP-Chlorobenzene		3276	20.0	21	105 0
TCLP-1,1-Dichloroethene		3276	20.0	23	115.0
•		3276	20.0	25	125.0
TCLP-Trichloroethene		_	-		
Surr. Dibromofluoromethane		3276	·50 0	47	94.0 102 0
Surr: Toluene-d8		3276	50.0 50 0	51 54	102 0
Surr. Bromofluorobenzene TCLP-VOLATILES 8260		3276	50 0	59	108 0
		3284	20.0	21.0	105 0
TCLP-Benzene TCLP-Chlorobenzene		3284	20.0	21.0	105.0
			-		
TCLP-1,1-Dichloroethene		3284	20.0	22.0	110 0
TCLP-Trichloroethene		3284	20.0	25.0	125.0
Surr: Dibromofluoromethane		3284	50.0	44.0	88.0
Surr: Toluene-d8		3284	50.0	55.0	110.0
Surr: Bromofluorobenzene		3284	50.0	58.0	116.0
TCLP-VOLATILES 8260			_		
TCLP-Benzene		3285	20.0	20.0	100.0
TCLP-Chlorobenzene		3285	20.0	19.0	95 0
TCLP-1,1-Dichloroethene		3285	20.0	19.0	95.0
TCLP-Trichloroethene		3285	20.0	20.0	100.0
Surr: Dibromofluoromethane		3285	50.0	53.0	106 0
Surr: Toluene-d8		3285	50.0	53.0	106.0
Surr: Bromofluorobenzene		3285	50.0	52.0	104.0
TCLP BASE NEUTRAL COMPOUNDS					
TCLP-1,4-Dichlorobenzene	717	1642	80	44	55.0
TCLP-Hexachloroethane	717	1642	80	42	52.5
TCLP-Nitrobenzene	717	1642	80	52	65.0
TCLP-Hexachlorobutadiene	717	1642	σв	45	56 3
TCLP-2,4-Dinitrotoluene	717	1642	80	64	80.0
TCLP-Hexachlorobenzene	717	1642	80	59	73.8
TCLP-Pyridine	717	1642	80	34	42 5
Surr: Nitrobenzene-d5	717	1642	100	70	70.0



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

	Prep	Run	7.		
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	% Recovery
Surr: 2-Fluorobiphenyl	717	1642	100	64	64.0
Surr: Terphenyl-d14	717	1642	100	71	71.0
TCLP BASE NEUTRAL COMPOUNDS					
TCLP-1,4-Dichlorobenzene	718	1647	80	53	66.3
TCLP-Hexachloroethane	718	1647	80	50	62.5
TCLP-Nitrobenzene	718	1647	80	62	77.5
TCLP-Hexachlorobutadiene	718	1647	80	46	57.5
TCLP-2,4-Dinitrotoluene	718	1647	80	70	87 5
TCLP-Hexachlorobenzene	718	1647	80	71	88.8
TCLP-Pyridine	718	1647	80	35	43.8
Surr: Nitrobenzene-d5	718	1647	100	80	80.0
Surr: 2-Fluorobiphenyl	718	1647	100	84	84.0
Surr: Terphenyl-d14	718	1647	100	83	83 0



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

Analyte	Prep Batch Number	Run Batch Number	Matrıx Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Cyanide, total		680	37.5	1.70	45.5	mg/kg	78.7	41.0	46.4	mg/kg	84.7	8.9
Cyanide, total		680	44.6	0.47	50.5	mg/kg	87 4	40.1	44.2	mg/kg	89.6	10.7
TCLP-Arsenic, ICP	2764	4609	1.02	<1.0	1.00	mg/L	102.0	0 960	1 00	mg/L	96.0	6.1
TCLP-Barium, ICP	2764	4611	1.57	0 637	1.00	mg/L	93.3	1 57	1.00	mg/L	93.3	0.0
TCLP-Cadmium, ICP	2764	5493	2.59	2.28	0.500	mg/L	62.0	2 57	0 500	mg/L	58.0	0.8
TCLP-Chromium, ICP	2764	4593	0.990	<0.200	1.00	mg/L	99.0	0.983	1.00	mg/L	98.3	0.7
TCLP-Lead, ICP	2764	4799	1.06	<1.0	1.00	mg/L	106.0	1 03	1.00	mg/L	103.0	2.9
TCLP-Mercury, CVAA	1422	1284	0.00258	<0.0002	0.0025	mg/L	103.2	0 0025	0 0025	mg/L	103.2	0.0
TCLP-Mercury, CVAA	1422	1284	0.00269	<0.0002	0.0025	mg/L	107.6	0 0026	0.0025	mg/L	107.6	0.0
TCLP-Selenium, ICP	2764	4415	1.04	<1.0	1.00	mg/L	104.0	1 10	1 00	mg/L	110.0	5.6
TCLP-Silver, ICP	2764	4799	0.479	<0.250	0.500	mg/L	95 8	0 467	0.500	mg/L	93.4	2.5
PCBs 8082 NonAqueous												
PCB-1016	475	885	255	<61	197	ug/kg	129.5	256	201	ug/kg	127.4	0.2
PCB-1260	475	885	245	<61	197	ug/kg	124.2	245	201	ug/kg	122.1	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix Spike and Matrix Spike Duplicate results.

Page 43 of 45



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
TCLP-VOLATILES 8260												
TCLP-Benzene		3285	19	<1 0	20 0	ug/L	95.0	18	20.0	ug/L	90.0	5.4
TCLP-Chlorobenzene		3285	19	<1.0	20.0	ug/L	95.0	19	20.0	ug/L	95.0	0.0
TCLP-1,1-Dichloroethene		3285	18	<1.0	20.0	ug/L	90.0	18	20.0	ug/L	90.0	0.0
TCLP-Trichloroethene		3285	19	<1.0	20.0	ug/L	95.0	19	20.0	ug/L	95.0	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix $s_{\rm P}$ ike and Matrix Spike Duplicate results.

Page 44 of 45



DUPLICATES

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12079

	Prep	Run				
	Batch	Batch	Original	Duplicate		
Analyte	Number	Number	Analysis	Analysis	Units	RPD
Solids, Total		3120	82.4	81.9	ŧ	0 6
Solids, Total		3120	91.8	93.2	*	1.5
Solids, Total		3120	7.7,. 8	80.6	ł	3.5
Solids, Total		3120	77 5	76.6	ŧ	1.2
Solids, Total		3120	77 6	76.8	ŧ	1.0
Solids, Total		3120	90.0	90 8	ł	0.9

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.



TestAmerica, Bartlett Division

	KEY TO ABBREVIATIONS and METHOD REFERENCES
<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	Concentration in units of micrograms of analyte per gram of sample Measurement used for non-aqueous samples Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	. Concentration in units of micrograms of analyte per liter of sample Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb)
ug/Kg	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	• These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
ł	: Percent; To convert ppm to %, divide the result by 10,000 To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	. Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Refere	nces
_(1)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
(5)	Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

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See "Methods for the Determination of Metals in Environmental Samples", Supplement I

(7)

EPA-600/R-94/111, May 1994.



(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986

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SCC1/TP-5-1: 7'	10-28-99	1:52	6	301L		X	X	X	X	Χ						1	1			
SCI/TP-6-1; 7'	10-29-99	8:28	6	501L		X	X	χ	Х	X										
2001/TP-7-1; 7'	10-28-99	9:12	6	SOIL		X	X	Х	Χ	X										
SCC1/78-8-1: 7'	6-29-99	10:05	6	501		X	X	X	X	X					1					
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ccc1/TP-12-1; 31-41	10.29-99	11:49	6	Soil		X	X	X	X	X					i	1		1		· · · · · · · · · · · · · · · · · · ·
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Test/America

Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 11/16/1999

NET Job Number: 99.12163

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130 A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: Proj. #17094/CCC1

Sample	Sample Description	Date	Date
Number		Taken	Received
553067	CCC1/TP-13-1; 7'	11/02/1999	11/03/1999
553068	CCC1/TP-11-1; 4-6'	11/02/1999	11/03/1999
553069	CCC1/TP-13-1; 7' Duplicate	11/02/1999	11/03/1999
553070	CCC1/TP-14-1; 3-4'	11/02/1999	11/03/1999
553071	CCC1/TP-14-2; 7'	11/02/1999	11/03/1999

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Mary Pearson Project Manager

850 W. BARTLETT RD / BARTLETT, IL 60103 / 630-289-3100 / FAX. 630-289-5445 / 800-378-5700



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 553067

Job No.: 99.12163

Sample Description:

CCC1/TP-13-1; 7' Proj. #17094/CCC1

Date Taken: 11/02/1999 Time Taken: 08:20 IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of	Method	Analyst	Васс	h No	Αr	alytical
				Analysis	PQL		Prep	/Run		Method
Cyanide, total	<0 28		mg/kg dw	11/10/1999	0.28]rr		680	SW	9012A
Solids, Total	90.7		*	11/11/1999	0.1	gmg		3123	SM	2540
TCLP, ZHE Volatiles Prep	leached			11/04/1999		nok	652		SN	1311
TCLP Metals Extraction	leached			11/03/1999		nbk		1068	SN	1311
TCLP-Arsenic, ICP	<1	XM	mg/L	11/11/1999	0.20	kdw	2754	4609	SN	6010B
TCLP-Barium, ICP	<0.1	MX	mg/L	11/11/1999	0.920	kdv	2764	4611	SW	6016B
TCLP-Cadmium, ICP	<0.05	ЖХ	mg/L	11/11/1999	0.010	káv	2764	5493	SW	6010B
TCLP-Chromium, ICP	<02	MX	mg/L	11/11/1999	0 040	kdw	2764	4593	SW	6010B
TCLP-Lead, ICP	<1	их	mg/L	11/11/1999	0.200	kdw	2764	4799	SW	6010B
TCLP-Nercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	<1	мх	mg/L	11/11/1999	0.20	kdv	2764	4415	SW	6010B
TCLP-Silver, ICP	< 9.2	MX	mg/L	11/11/1999	0.050	kdv	2764	4799	SW	6010B
TCLP Organic Prep	leached			11/03/1999		nbk		552	S₩	1311
Prep PCBs 3082 NonAqueous	COMPLETE			11/03/1999		j≎e	475		SW	354CC
PCBs 8082 NonAqueous										
PCB-1016	<55		ug/kg dw	11/16/1999	55	tls	475	89Ò	SW	8082
PCB-1221	<55		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1232	<55		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1242 ·	57		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1248	<55		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1254	<55		ug/kg dw	11/16/1999	55	tle	475	890	SW	8082
PCB-1260	<55		ug/kg dw	11/16/1999	55	tls	475	890	SW	8092
Surr Tetrachloroxylene (TCX)	109 0		ŧ	11/16/1999	59-118	tls	475	890	SW	8082
Surr. Decachlorobiphenyl (DCB)	213.0		ŧ	11/16/1999	55-132	tla	475	890	SW	8062
Prep, ENA Extract (TCLP)	extracted			11/05/1999		ıih	719		SW	3510C

MX · Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 553067

Job No.: 99.12163

Sample Description:

CCC1/TP-13-1; 7' Proj. #17094/CCC1

Date Taken: 11/02/1999 Time Taken: 08:20 IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130

Parameter	Result.s	Units	Date of Analysis	Method PQL	Analyst		ch No. o/Run	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SN 8270B
TCLP-o-Cresol	<0 10	mg/L	11/14/1999	0.10	pll	713	1647	SW 8270B
TCLP-map Cresol	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Pentachlorophenol	<0.50	mg/L	11/14/1999	0.50	pll	719	1647	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/14/1999	0.50	pll	719	1647	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0 10	mg/L	11/14/1999	0.10	pll	719	1647	SW 82709
Surr: Phenol-d6	28.0	*	11/14/1999	10-94	pll	719	1647	SW 8270B
Surr: 2-Fluorophenol	45.5	*	11/14/1999	21-100	pll	719	1647	SW \$2708
Surr: 2,4,6-Tribromophenol	69.0	*	11/14/1999	10-123	pll	719	1647	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SM 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW 82FCB
TCLP-Chlorobenzene	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SN 8260B
TCLP-Chloroform	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SN 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/13/1999	0.020	யில்	652	3285	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW 8260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/Ъ	11/13/1999	0.40	πjo	652	3285	SW 8260B
TCLP-Tetrachloroethene	<0.10	mg/L	11/13/1999	0.10	mjo	652	3285	SW 6260B
TCLP-Trichloroethene	<0.20	mg/L	11/13/1999	0.20	mio	652	3285	SW 8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW 82609
Surr: Dibromoflucromethane	104.0	*	11/13/1999	75-130	mjo	652	3285	SW 8260B
Surr: Toluene-d8	106.0	*	11/13/1999	85-117	mjo c[m	652	3285	SW 8260B
Surr: Bromofluorobenzene	104.0	•	11/13/1999	80-116	mJo OCu	652	3285	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 553067

Job No.: 99.12163

Sample Description:

CCC1/TP-13-1; 7' Proj. #17094/CCC1

Date Taken: 11/02/1999
Time Taken: 08:20
IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analys		h No. /Run	Analytical Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Rexachloroethane	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 82703
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/14/1999	0 10	pll	719	1647	SW 82708
TCLP-2,4-Dinitrotoluene	<0.10	ng/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 6270B
Surr. Nitrobenzens-dS	53.0	ŧ	11/14/1999	35-114	pli	719	1647	SW 8270B
Surr: 2-Fluorobiphenyl	52.0	t	11/14/1999	43-116	p11	719	1647	SW 82/0B
Surr Terphenyl-dl4	74 0	*	11/14/1999	33-141	pll	719	1647	SW 82708



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 553068

Job No.: 99.12163

CCC1/TP-11-1; 4-6' Sample Description:

Proj. #17094/CCC1

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130 Date Taken: 11/02/1999 Time Taken: 09:02 IEPA Cert. No. 100221

Parameter	Results		Units	Date of	Method	Analyst	Bato	h No.	An	alytical
				Analysis	PQL		Prep	/Run		Method
Cyanide, total	<0.28		mg/kg dw	11/10/1999	0 28)rr		680	SW	9012A
Solids, Total	90.3		11.9/A9 U4	11/11/1999	0.1	gmg		3123	-	2540
TCLP, THE Volatiles Prep	leached		•	11/04/1999		nbk	652	3143		1311
TCLP Metals Extraction	leached			11/03/1999		nbk	052	1068		1311
TCLP-Arsenic, ICP	<1	M	/1	11/11/1999	0 20	kdw	2754	4609	_	6010B
		MX	mg/L		0 020	kdw		4611	_	6010B
TCLP-Barrum, ICP	<0.1	MOX	mg/L	11/11/1999		kd#		5493		6010B
TCLP-Cadmium, ICP	<0.05	MX	mg/L	11/11/1999	0.010					
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	-	4593	_	6010B
TCLP-Lead, ICP	<1	MX	mg/L	11/11/1999	0.200	kdw	_	4799		6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	van		1264		7470A
TCLP-Selenium, ICP	<1	MX	mg/L.	11/11/1999	0.20	kdw		4415	-	6010B
TCLP-Silver, ICP	<0.2	MOC	mg/L	11/11/1999	0.050	kdw	2764	4799	SW	6010B
TCLP Organic Prep	leached			11/03/1999		nbk		552	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999)ce	475		SW	3540C
PCBs 8082 NonAqueous		MX								
PCB-1016	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1221	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8083
PCB-1232	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1242	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1248	<280		ug/kg dw	11/14/1999	55	tls	475	688	SW	8082
PCB-1254	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
PCB-1260	<280		ug/kg dw	11/14/1999	55	tls	475	889	SW	8082
Surr: Tetrachloroxylene (TCX)	96.0		+	11/14/1999	59-118	tls	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	96.0		*	11/14/1999	55-132	tls	475	288	SW	8082
X. ·			75							
Prep, ENA Extract (TCLP)	extracted	l	1 "	11/05/1999		jjh	719		SW	3510C

MX : Dilution required due to sample matrix; analyte is not detected.

Test/America

ANALYTICAL REPORT

Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 553068

Job No.: 99.12163

11/16/1999

Sample Description:

CCC1/TP-11-1; 4-6' Proj. #17094/CCC1

Date Taken: 11/02/1999 Time Taken: 09:02 IEPA Cert. No. 100221 Date Received: 11/03/1999 Time Received: 10:40

WDNR Cert. No. 999447130

Farameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. Run		alytical Method
TCLP-ACID COMPOUNDS 8270			•						
TCLP-Cresols, Total	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW	8270B
TCLP-o-Cresol	- <g.10< td=""><td>mg/L</td><td>11/14/1999</td><td>0.10</td><td>pll</td><td>719</td><td>1647</td><td>SW</td><td>8270B</td></g.10<>	mg/L	11/14/1999	0.10	pll	719	1647	SW	8270B
TCLP-m&p Cresol	<0.10	mg/L	11/14/1999	0.10	p11	719	1647	SW	8273B
TCLP-Pentachlorophenol	<0.50	mg/L	11/14/1999	0.50	pll	719	1647	SW	8273B
TCLP-2,4,5-Trichlcrophenol	<0.50	mg/L	11/14/1999	0.59	pli	719	1647	SW	8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW	8270B
Surr: Phenol-d6	32 0	*	11/14/1999	10-94	pll	719	1647	SW	82709
Surr: 2-Fluorophenol	47.0	•	11/14/1999	21-100	pll	719	1647	SW	8270B
Surr: 2,4,6-Tribromophenol	81.5	*	11/14/1999	10-123	pll	719	1647	SW	8270B
TCLP-VOLATILES 8260									
TCLP-Benzene	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW	8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW	8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW	82603
TCLP-Chloroform	<0.020	mg/L	11/13/1999	0.020	mjo	€52	3285	Sw	8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW	8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	5W	8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/13/1999	0.020	mjo	652	3285	SW	8260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/L	11/13/1999	0.40	mjo	652	3285	SW	8260B
TCLP-Tetrachloroethene	<0.10	mg/L	11/13/1999	0.10	mjo	652	3285	SW	8260B
TCLP-Trichloroethene	<0.20	mg/L	11/13/1999	0.20	mjo	652	3285	SW	8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/13/1999	0 020	oţm	652	3285	SW	8260B
Surr: Dibromofluoromethane	166.0	k	11/13/1999	75-130	mjo,	652	3285	SW	8260B
Surr: Toluene-d8	106.0	¥	11/13/1999	85-117	mjo	652	3285	SW	8260B
Surr: Bromofluorobenzene	106.0	ŧ	11/13/1999	80-115	mjo	652	3285	SH	8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Westmont, IL 60559

11/16/1999

Sample No. : 553068

Job No.: 99.12163

Sample Description:

CCC1/TP-11-1; 4-6' Proj. #17094/CCC1

Date Taken: 11/02/1999

Time Taken: 09:02 IEPA Cert. No. 100221 Date Received: 11/03/1999 Time Received: 10:40

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method FQ!,	Analyst	Batch R Prep/Ru	-
TCLP BASE NEUTRAL COMPOUNDS							
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/14/1999	0.10	p11	719 16	17 SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/14/1999	0.10	pll	719 16	17 SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/14/1999	0.10	pll	719 16	17 SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/14/1999	0.10	pll	719 16	7 SW 82708
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/14/1999	0.10	pli	719 16	7 SW 6270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/14/1999	0.10	pll	719 16	7 SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/14/1999	0.10	p 11	719 16	7 SW 8270B
Surr: Nitrobenzene-d5	83.0	*	11/14/1999	35~114	pli	719 16	7 SW 8270B
Surr: 2-Fluorobiphenyl	64.0	*	11/14/1999	43-116	pll	719 16	7 SW 8270B
Surr: Terphenyl-d14	75.0	ŧ	11/14/1999	33-141	pll	719 16	7 SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

Sample No. : 553069

11/16/1999

Job No.: 99.12163

Sample Description:

CCC1/TP-13-1; 7' Duplicate

Proj. #17094/CCC1

Date Taken: 11/02/1999 Time Taken: 08:21

IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40

WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst		h No Run		alytical Method
Cyanide, total	<0.28		mg/kg dw	11/12/1999	0.29	Jrr		652	SA	9013A
Solids, Total	9C.4		*	11/11/1999	0.1	gng		3123	SM	2540
TCLP, ZHE Volatiles Prep	leached			11/05/1999		nbk	653		SW	1311
TCLP Metals Extraction	leached			11/03/1999		nbk		1068	SW	1311
TCLF-Arsenic, ICP	<i< td=""><td>MIX</td><td>mg/L</td><td>11/11/1993</td><td>0.20</td><td>kd¥</td><td>2770</td><td>4609</td><td>SW</td><td>80103</td></i<>	MIX	mg/L	11/11/1993	0.20	kd¥	2770	4609	SW	80103
TCLP-Barium, ICP	<0.1	MX	mg/L	11/11/1999	0.020	kdw	2770	4611	SW	6010B
TCLP-Cadmium, ICP	<0.05	MDX	mg/L	11/11/1999	0.010	kdw	2770	5493	SW	6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2770	4593	5%	6010B
TCLP-Lead, ICP	<1	MIX	mg/L	11/11/1999	0.200	kdw	2770	4799	SW	6010B
TCLP-Mercury, CVAA	<0.0002		mg/Li	11/08/1999	0.0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	41	MIX	mg/L	11/11/1999	0.20	kdw	2770	4415	SW	5010B
TCLP-Silver, ICP	<0.2	MIX	mg/L	11/11/1999	0.050	kdw	2770	4799	SH	60108
TCLP Organic Prep	leached			11/03/1999		nbk		552	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		jce	475		SW	3540C
PCEs 8082 NonAqueous										
PCB-1016	<5\$		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1221	<55		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1232	<55		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1242	110		ug/kg dw	11/16/1999	55	tls	475	890	SW	8082
PCB-1248	< 5%		ug/kg dw	11/16/1999	55	tls	475	850	SN	8082
PCB-1254	61		ug/kg dw	11/16/1999	55	tis	475	890	SW	8082
PCB-1260	<55		ug/kg d₩	11/16/1999	55	tls	475	890	SN.	8082
Surr: Tetrachloroxylene (TCK)	100.0		•	11/16/1999	59-118	tls	475	890	SW	8082
Surr: Decachlorobiphenyl (DCB)	103.0		ł	11/16/1999	55-132	tls	475	890	S₩	8082
Prep. BNA Extract (TCLP)	extracced			11/05/1999) jh	719		SW	3510C

MX : Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 553069

Job No.: 99.12163

Sample Description:

CCC1/TP-13-1; 7' Duplicate

Proj. #17094/CCC1

Date Taken: 11/02/1999 Time Taken: 08:21 IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No. Run	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	<c.19< td=""><td>mg/L</td><td>11/14/1999</td><td>0 10</td><td>pll</td><td>719</td><td>1647</td><td>SW 8270B</td></c.19<>	mg/L	11/14/1999	0 10	pll	719	1647	SW 8270B
TCLP-o-Cresol	<0.10	mg/L	11/14/1999	0.10	p11	719	1647	SW 82709
TCLP-map Cresol	<0.10	mg/L	11/14/1999	0.10	pli	713	1647	SW 8270B
TCLP-Pencachlorophenol	<0.50	mg/L	11/14/1999	0.50	pl1	719	1647	SW 8270E
TCLP-2,4,5-Trichlcrophenol	<0.50	mg/L	11/14/1999	0.50	pll	719	1647	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/14/1999	0.10	pli	719	1647	SW 8270B
Surr. Phenol-d6	32.5	*	11/14/1999	10-94	pll	719	1647	SW 8270B
Surr: 2-Fluorophenol	47.0	*	11/14/1999	21-100	pll	719	1647	SW 8270B
Surr: 2.4,6-Tribromophenol	70.5	•	11/14/1999	10-123	pll	719	1647	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
TCLP-Carbon Tetrachloride	<0.020	mg/L	11/13/1999	0.020	myo	653	3285	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/13/1999	0.020	oţm	653	3285	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
TCLF-1,2-Dichloroethane	<0.020	mg/L	11/13/1999	0.020	Mjo	653	3285	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 62603
TCLP-Methyl Ethyl Kecone	<0.40	mg/L	11/13/1999	0.40	mjo	653	3285	SW 8260B
TCLP-Tetrachloroethene	<0.10	mg/L	11/13/1999	0 10	mJa	653	3285	SW 8260B
TCLP-Trichloroethene	<0.20	mg/L	11/13/1999	0.20	mjo	653	3285	SW 8260B
TCLF-Vinyl Chloride	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
Surr: Dibromofluoromethane	104.0	*	11/13/1999	75-130	mjo	653	3285	SW 8260B
Sarr: Toluene-d8	104.0	ŧ	11/13/1999	85-117	mjo	653	3285	SW 8260B
Surr: Bromofluorobenzene	104.0	*	11/13/1999	80-116	Injo	653	3285	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 553069

Job No.: 99.12163

Sample Description:

CCC1/TP-13-1; 7' Duplicate

Proj. #17094/CCC1

Date Taken: 11/02/1999 Time Taken: 08:21 IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	nalyst Batch No. Prep/Run		Analytical Method
TCLP BASE NEUTRAL COMPOUNDS			* ; *					
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Nitrobenzene	<0.10	mg/L	11/14/1999	0.10	p11	719	1647	SW 8270B
TCLP-Hexachlorobusadiene	<0.10	mg/L	11/14/1999	0.10	p11	719	1647	SW 82702
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/14/1999	0.10	p11	713	1647	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/14/1999	0.10	pll	719	1647	SW 8270B
TCLP-Pyridine	<0.10	mg/L	11/14/1999	0.10	pil	719	1647	SW 8270B
Surr: Nitrobenzene-d5	74.0	*	11/14/1999	35-114	pll	719	1647	SW 8270B
Surr · 2-Fluorobiphenyl	64.0	*	11/14/1999	43-116	pll	713	1647	SW 8270B
Surr: Terphenyl-d14	73.0	1	11/14/1999	33-141	p11	713	1647	SW 82709



11/16/1999

Sample No. : 553070

Job No.: 99.12163

Mr. Tom Schwerha

KRIKAU, PYLES, RYSIEWICZ &

ASSOCIATES

414 Plaza Drive Ste. 106

Westmont, IL 60559

Sample Description:

CCC1/TP-14-1; 3-4'

Proj. #17094/CCC1

Date Received: 11/03/1999 Time Received: 10:40 Date Taken: 11/02/1999

Time Taken: 09:30 WDNR Cert. No. 999447130 IEPA Cert. No. 100221

Parameter	Results		Cnits	Date of	Method	Analyst	Bato	h No.	An	alytical
				Analysis	PQL		i rep	/Run		Method
Cyanide, total	203		mg/kg dw	11/12/1999	0 27	jrt		632	SW	9012A
Solids, Total	92.1		Ł	11/11/1999	0.1	gmg		3123	5M	2540
TCLP, ZHE Volatiles Prep	leached			11/05/1999		nbk	653		SW	1311
TCLP Metals Extraction	leached			11/03/1999		nbk		1068	SW	1311
TCLP-Arsenic, ICP	<1	MX	mg/L	11/11/1999	0.20	kdw	2770	4609	SW	6010B
TCLP-Barium, ICP	<0 1	MX	mg/L	11/11/1999	0 020	kdv	2770	4511	SW	6G10B
TCLP-Cadmium, ICP	<0.05	MX	mg/L	11/11/1999	0,010	kdw	2770	5493	SW	6010B
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdv	2770	4593	SW	6C1 DB
TCLP-Lead, ICP	<1	MOX	mg/L	21/12/1999	0 200	kdw	2770	4799	SW	6010B
TCLP-Mercury, CVAA	<9.0004	MDC	mg/L	11/08/1999	0 0004	vgm	1422	1284	SW	7470A
TCLP-Selenium, ICP	<1	MX	mg/L	11/11/1999	0.20	kdu	2770	4415	SW	5010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1999	0.050	kdw	2770	4799	SW	6010B
TCLP Organic Prep	leached			11/03/1999		nbk		552	SW	1311
Prep PCBs 8082 NonAqueous	COMPLETE			11/03/1999		jce	475		sw	3540C
PCBs 8082 NonAqueous										
PCB-1016	<540		ug/kg dw	11/13/1999	54	tls	475	889	SW	8082
PCB-1221	<540		ug/kg dw	11/13/1999	54	tls	475	889	SW	8082
FCB-1232	<540		ug/kg dw	11/13/1999	54	tls	475	889	SW	8082
PCB-1242	2,060		ug/kg dw	11/13/1999	54	tls	475	889	SW	9682
PCB-1248	<540		ug/kg dw	11/13/1999	54	tls	475	839	SW	8082
PCB-1254	1,300		ug/kg dw	11/13/1999	54	tls	475	889	SW	8082
PC9-1260	<540		ug/kg dw	11/13/1999	54	tls	475	889	SW	6082
Surr: Tetrachloroxylene (TCX)	DILUTED O	UT	ug/L	11/13/1999	59-119	tls	475	889	SW	8082
Surr: Decachlorobiphenyl (DCB)	DILUTED O	UT	ug/L	11/13/1999	55-132	tls	475	889	SW	8082
Prep, BNA Extract (TCLP)	extracted			11/04/1999		rap	718		sw	3510C

MX : Dilution required due to sample matrix; analyte is not detected.



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

11/16/1999

Sample No. : 553070

Job No.: 99.12163

Sample Description: CCC1/TP-14-1; 3-4'

Proj. #17094/CCC1

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130 Date Taken: 11/02/1999 Time Taken: 09:30 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst		h No /Run	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	0.13	mg/L	11/14/1999	0.10	pll	718	1647	SW 8270B
TCLP-o-CresoI	<0.10	mg/L	11/14/1999	0 10	pll	718	1547	SW 82708
TCLP-map Cresol	<0.10	mg/L	11/14/1999	0 10	pll	719	1647	SW 8270B
TCLP-Pentachlorophenol	<0.50	mg/L	11/14/1999	0 50	p11	718	1547	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/14/1999	0 50	p11	718	1647	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/14/1999	0 10	pll	718	1547	SW 8270B
Surr: Phenol-d&	37.5	1	11/14/1999	10-94	p11	718	1647	SW 8270B
Surr: 2-Flucrophenol	49.5	*	11/14/1999	21-109	pll	718	1547	SW 8270B
Surr. 2,4,6-Tribromophenol	79.5	*	11/14/1999	10-123	pll	718	1647	SW 8270B
TCLP-VOLATILES 8260								
TCLP-Benzene	0.093	mg/L	11/13/1999	0 020	njo	653	3285	SW 8260B
TCbP-Carbon Tetrachloride	<0.020	mg/L	11/13/1999	0.620	πjo	653	3285	SW 8260B
TCLP-Chlorobenzene	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
TCLP-Chloroform	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 9260B
TCLP-1,4-Dichlorobenzene	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
TCLP-1,2-Dichloroethane	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
TCLP-1,1-Dichloroethene	<0.020	mg/L	11/13/1999	0.020	njo	653	3285	SW 9260B
TCLP-Methyl Ethyl Ketone	<0.40	mg/L	11/13/1999	0.40	mjo	653	3285	SW 9260B
TCLP-Tetrachloroethene	<0.10	mg/L	11/13/1999	0.10	mjo	653	3285	SW 8260B
TCLP-Trichloroethene	2.0	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
TCLP-Vinyl Chloride	<0.020	mg/L	11/13/1999	0.020	mjo	653	3285	SW 8260B
Surr: Dibromofluoromethane	104.0	+	11/13/1999	75-130	mjo	653	3285	SW 3260B
Surr: Toluene-d8	104.0	*	11/13/1999	85-117	njo	653	3285	SW 3260B
Surr: B:cmofluorobenzene	104.0	ŧ	11/13/1999	80-116	mjo	653	3285	SW 8260B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Sample No. : 553070

11/16/1999

Westmont, IL 60559

Job No.: 99.12163

CCC1/TP-14-1; 3-4' Proj. #17094/CCC1 Sample Description:

Date Taken: 11/02/1999 Time Taken: 09:30 IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130

Parameter	Results	Units	Date of	Method	Analyst	Bato	h No.	Analytical
			Analysis	PÇL		Prep	/Run	Method
TCLP BASE NEUTRAL COMPOUNDS								
TCLP-1,4-Dichlorobenzene	<0 10	mg/ľ	11/14/1999	0.10	pll	718	1647	SW 8270B
TCLP-Hexachloroethane	<0 10	mg/L	11/14/1999	0.10	pll	718	1547	SW 8272a
TCLP-Nitrobenzene	<0.10	mg/L	11/14/1999	0 10	pll	718	1647	SW 8270B
TCLP-Hexachlorobutadiene	<0.10	mg/L	11/14/1999	0.10	pll	718	1647	SW 8270B
TCLP-2,4-Dinitrocoluene	<0.10	mg/L	11/14/1999	D 10	p11	718	1547	SW 82708
TCLP-Hexachlorobenzene	<0 10	mg/L	11/14/1999	0.10	pll	718	1647	SW 82708
TCLP-Pyridine	<0.10	mg/L	11/14/1999	0 10	pll	718	1647	SW 8270B
Surr Nitrobenzene-d5	71.0	ŧ	11/14/1999	35-114	pll	718	1547	SW 82703
Surr · 2-Fluorobiphenyl	69.0	ŧ	11/14/1999	43-116	pll	718	1547	SW 8270B
Surr: Terphenyl-d14	85.0	*	11/14/1999	33-141	pll	718	1647	SW 8270B



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Westmont, IL 60559

11/16/1999

Sample No. : 553071

Job No.: 99.12163

CCC1/TP-14-2; 7' Proj. #17094/CCC1 Sample Description:

Date Taken: 11/02/1999 Time Taken: 09:35 IEPA Cert. No. 100221 Date Received: 11/03/1999 Time Received: 10:40 WDNR Cert. No. 999447130

Parameter	Results		Units	Date of	Mechod	Analyst	Batch No	Analytical
				Analysis	PQL		Prep/Run	Method
Cyanide, total	816		mg/kg dw	11/12/1999	0 36	jrr	682	SW 9012A
Solids, Total	68.5		*	11/11/1999	0.1	gmg	3123	SM 2540
TCLP, ZHE Volatiles Prep	leached			11/05/1999		nbk	653	SW 1311
TCLP Metals Extraction	leached			11/03/1999		nbk	1068	SW 1311
TCL7-Arsenic, ICP	<1	MX	mg/L	11/11/1999	0.20	kdw	2770 4609	SW 6010B
TCLP_Barium, ICP	0.777		mg/L	11/11/1999	0.020	kdw	2770 4611	SW 60109
TCLP-Cadmium, ICP	0.078		mg/L	11/11/1999	0 610	kdw	2770 5493	SW 60103
TCLP-Chromium, ICP	<0.2	MX	mg/L	11/11/1999	0.040	kdw	2770 4593	SW 6010B
TCLP-Lead, ICP	<1	MX	mg/L	11/11/1999	0.200	kdw	2770 4799	SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	11/08/1999	0.0004	vgm	1422 1284	SW 7470A
TCLP-Selenium, ICP	<1	MOC	mg/L	11/11/1999	0.20	kdw	2770 4415	SW 6010B
TCLP-Silver, ICP	<0.2	MX	mg/L	11/11/1939	0.050	kdw	2770 4799	SW 6010B
TCLP Organic Prep	leached			11/03/1999		nbk	552	SW 1311
Prep PCBs 8082 NonAqueous	COMPLETE			[11/03/1999		усе	475	SW 3540C
PCBs 8082 NonAqueous		MX						
PCB-1016	<3,600		ug/kg dw	11/16/1999	73	tls	475 890	SW 8082
PCB-1221	<3,600		ug/kg dw	11/16/1999	73	tls	475 890	SW 8082
PCB-1232	<3,600		ug/kg dw	11/16/1999	73	tls	475 890	SW 8082
PCB-1242	<3,600		ug/kg dw	11/16/1999	73	tls	475 B90	SW 8082
PCB-1248	<3,600		ug/kg dw	11/16/1999	73	tls	475 890	SM 8085
PCB-1254	<3,600		ug/kg dw	11/16/1999	73	tls	475 890	SW 8082
PCB-1260	<3,600		ug/kg dw	11/16/1999	73	tls	475 890	SW 8082
Surr: Tetrachloroxylene (TCX)	DILUTED O	UT	ug/L	11/16/1999	59-118	tls	475 890	SW 8092
Surr: Decachlorobiphenyl (DCB)	DILUTED O	UT	ug/L	11/16/1959	55-132	tls	475 890	SW 8082
Prep, BNA Extract (TCLP)	extracted			11/04/1999		rap	718	SW 3510C

MX : Dilution required due to sample matrix; analyte is not detected.

Page 14 of 28 .51



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES**

414 Plaza Drive Ste. 106

Westmont, IL 60559

11/16/1999

Sample No. : 553071

Job No.: 99.12163

Sample Description:

CCC1/TP-14-2; 7' Proj. #17094/CCC1

Date Taken: 11/02/1999 Time Taken: 09:35 IEPA Cert. No. 100221

Date Received: 11/03/1999 Time Received: 10:40

WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Metnod PQL	Analyst		h No. VRun	Analytical Method
TCLP-ACID COMPOUNDS 8270								
TCLP-Cresols, Total	0.71	mg/L	11/14/1999	0.10	pll	718	1647	SW 82708
TCLP-o-Cresol	0.25	mg/L	11/14/1999	0.10	pll	718	1547	SW 82708
TCLP-map Cresol	0,46	mg/L	11/14/1999	0.10	pll	718	1547	SW 52708
TCLP-Pentachlorophenol	<0 50	mg/L	11/14/1999	0.50	p11	718	1647	SW 8270B
TCLP-2,4,5-Trichlorophenol	<0.50	mg/L	11/14/1999	0.50	pll	710	1647	SW 8270B
TCLP-2,4,6-Trichlorophenol	<0.10	mg/L	11/14/1999	0.10	pll	718	1647	SW 8270B
Surx: Phenol-d6	17.5	¥	11/14/1999	10-94	pll	718	1547	SW 8270B
Surr: 2-Fluorophencl	46.0	*	11/14/1999	21-100	pll	718	1547	SW 8270B
Surr: 2,4,6-Tribromophenol	78.5	*	11/14/1999	10-123	pll	718	1547	SW 8273B
TCLP-VOLATILES 8260						`		
TCLP-Benzene	<0.50	mg/L	11/13/1999	0 020	ota	653	3283	SW 8260B
TCLP-Carbon Tetrachloride	<0.50	mg/L	11/13/1999	0.020	mjo	653	3283	SW 8260B
TCLP-Chlorobenzene	<0.50	mg/L	11/13/1999	0.020	oţm	653	3283	SW 8260B
TCLP-Chloroform	<0.50	mg/L	11/13/1999	0.020	າເງວ	653	3283	SW 8260B
TCLP-1,4-Dichlorobenzene	<0.50	mg/L	11/13/1999	0.020	حزه	653	3283	SW 8260B
TCLP-1,2-Dichloroethane	<0.50	mg/L	11/13/1999	0 020	cim	653	3583	SW 8260B
TCLP-1,1-Dichloroethene	<0.50	mg/L	11/13/1999	0.020	mgo	653	3283	SW 8260B
TCLP-Methyl Ethyl Ketone	<10	mg/L	11/13/1999	0.40	מכמ	653	3283	SW 82673
TCLP-Tetrachloroethene	<0.50	mg/L	11/13/1999	0.020	mjo	653	3283	SW 8260B
TCLP-Trichloroethene	100	mg/L	11/14/1999	0.020	mjo	653	3282	SW 8260B
TCLP-Vinyl Chloride	<0.50	mg/L	11/13/1999	0.020	σįσ	653	3283	SW 8260B
Surr: Dibromofluoromethane	90.0	*	11/13/1999	75-130	otm	653	3283	SW 8260B
Surr: Toluene-d8	96.0	ł	11/13/1999	85-117	mjo	653	3283	SW 8260B
Surr · Bromofluorobenzene	94.0	*	11/13/1999	80-116	mjo	653	3283	SW 9260B

VOA AMALYZED AT A 25% DILUTION DUE TO HIGH CONCENTRATION OF TARGET ANALYTES



Mr. Tom Schwerha KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

11/16/1999

Sample No. : 553071

Job No.: 99.12163 Westmont, IL 60559

CCC1/TP-14-2; 7' Proj. #17094/CCC1 Sample Description:

Date Received: 11/03/1999 Date Taken: 11/02/1999 Time Received: 10:40 Time Taken: 09:35 WDNR Cert. No. 999447130 IEPA Cert. No. 100221

Parameter	Results	Units	Date of Analysis	Mechod PQL	Analyst	Batch Prep/I		Analytica: Mechod
TCLP BASE NEUTRAL COMPOUNDS			× ,					
TCLP-1,4-Dichlorobenzene	<0.10	mg/L	11/14/1999	0.10	pll	718	1647	SW 8270B
TCLP-Hexachloroethane	<0.10	mg/L	11/14/1999	0.10	pll	718 3	1647	SW 8270B
TCLP-Nitrobenzene	<0.19	mg/L	11/14/1999	0.10	p11	718	1647	SW 827CB
TCLP-dexachlorobutadiene	<0 10	mg/L	11/14/1999	0.10	pll	718	1647	SW 82705
TCLP-2,4-Dinitrotoluene	<0.10	mg/L	11/14/1999	0.10	pll	718 1	1647	SW 8270B
TCLP-Hexachlorobenzene	<0.10	mg/L	11/14/1999	0.10	pll	718 1	1647	SW 32708
TCLP-Pyridine	<0.10	mg/L	11/14/1999	0.10	pll	718 3	1547	SW #270B
Surr: Mitrobenzene-d5	72.0	ł	11/14/1999	35-114	pll	718 1	1547	SW 82709
Surr: 2-Fluorobiphenyl	62.0	4	11/14/1999	43-116	pll	718 1	1647	SW 82709
Surr: Terphenyl-d14	73 0	*	11/14/1999	33-141	pll	718 1	1647	SW 8270B

1 4



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

	Run	ccv		
	Batch	True	Conc.	Percent
Analyte	Number	Conc.	Found	Recovery
Cyanide, total	680	0 07	0.071	101.4
Cyanide, total	680	0.07	0.073	104.3
Cyanide, total	680	0.07	0.072	102.9
Cyanide, total	682	0.070	0.074	105.7
Cyanide, total	682	0.070	0.074	105.7
Cyanide, total	682	0.070	0 074	105.7
Cyanide, total	682	0.070	0.074	105.7
TCLP-Arsenic, ICP	4609	2.00	1.96	98.0
TCLP-Barium, ICP	4611	2.00	1.96	98.0
TCLP-Cadmium, ICP	5493	1.00	0.973	97.3
TCLP-Chromium, ICP	4593	2.00	1.95	98.0
TCLP-Lead, ICP	4799	2.00	1.96	98.0
TCLP-Mercury, CVAA	1284	0.0025	0.00264	105.6
TCLP-Selenium, ICP	4415	2.00	1.97	98.5
PCBs 8082 NonAqueous				
PCB-1016	889	500	5€8	113.6
PCB-1260	889	500	543	108.6
PCBs 8082 NonAqueous				
PCB-1016	889	500	561	112.2
PCB-1260	889	500	542	108.4
PCBs 8082 NonAqueous				
PCB-1016	989	500	553	110.6
PCB-1260	889	500	507	101.4
PCBs 8082 NonAqueous				
PCB-1016	889	500	547	109.4
PCB-1260	889	500"	524	104.8
PCBs 8082 NonAqueous				
PCB-1016	890	500	549	109.8
PCB-1260	890	50C	555	111.0
PCBs 8082 NonAqueous				
PCB-1016	890	500	550	110.0
PCB-1260	890	500	550	110 0
TCLP-ACID COMPOUNDS 8270			-	
TCLP-2,4,6-Trichlorophenol	1647	50.0	57.0	114.0

CCV - Continuing Calibration Verification



CONTINUING CALIBRATION VERIFICATION

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

Analyte	Run Batch Number	CCV True Conc.	Conc.	Percent Recovery
TCLP-VOLATILES 8260				
TCLP-Benzene	3283	50.0	48 0	96.0
TCLP-Chloroform	3283	50.0	46 0	92 0
TCLP-1,1-Dichloroethene	3283	50 0	52.0	104.0
TCLP-Vinyl Chloride	3283	50.0	46.0	92 0
TCLP-VOLATILES 8260				
TCLP-Benzene	3285	50 O	46.0	92.0
TCLP-Chloroform	3285	50.0	46.0	92 0
TCLF-1,1-Dichloroethene	3285	50.0	45.0	90 C
TCLP-Vinyl Chloride	3285	S0 0	54.0	108 0
TCLP-VOLATILES 8260				
TCLP BASE NEUTRAL COMPOUNDS				
TCLP-1,4-Dichlorobenzene	1647	50 C	55.0	110.0
TCLP-Hexachlorobutadiene	1647	50 0	54.0	108.0
TCLP BASE NEUTRAL COMPOUNDS				



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

	Prep	Run	Blank				
	Batch	Batch	Analysis		Reporting	Ana	lytical
Analyte	Number	Number	Results	Units	Limit	M	ethod
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9	012A
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9	ASCO
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9	012A
Cyanide, total		680	<0.005	mg/kg	0.25	SW 9	012 X
Cyanide, total		682	<0.005	mg/kg	0.25	SW 9	013 A
Cyanide, total		682	<0.005	mg/kg	0.25	SW 9	012A
Cyanide, total		682	<0.005	mg/kg	0.25	SW 9	ASIO
Cyanide, total		682	<0.005	mg/kg	0.25	SW 9	012A
Solids, Total		3123	<0.1	*	0.1	SM 25	540
TCLP-Arsenic, ICP	2764	4605	<0.20	mg/L	0 20	SW 60	0108
TCLP-Arsenic, ICP	2770	4606	<0.20	mg/L	0.20	SW 6	010B
TCLP-Barlum, ICP	2764	4608	<0 020	mg/L	0.020	SW 60	CICB
TCLP-Barium, ICP	2770	4608	<0.020	mg/L	0.020	SW 60	310B
TCLP-Cadmium, ICP	2764	5490	<0.010	mg/L	0.010	SW 50	010B
TCLP-Cadmium, ICP	2770	5490	<0 010	mg/L	0.010	SW 60	0108
TCLP-Chromium, ICP	2764	4590	<0.040	mg/L	0.040	SW 60	10B
TCLP-Chromium, ICP	2770	4590	<0.040	mg/L	0.040	SW 60)10B
TCLP-Lead, ICP	2764	4795	<0.200	mg/L	0.200	SW 60	10B
TCLP-Lead, ICP	2770	4796	<0.200	mg/L	0.200	SW 60	10B
TCLP-Nercury, CVAA	1422	1284	<0.0002	mg/L	0.0002	SW 74	170A
TCLP-Nercury, CVAA	1422	1284	<0.0002	mg/L	0.0002	SW 74	70A
TCLP-Selenium, ICP	2764	4413	<0.20	mg/L	0.20	SW 60	10B
TCLP-Selenium, ICP	2770	4412	<0.20	mg/L	0 20	SW 60	10B
TCLP-Silver, ICP	2764	4796	<0.050	mg/L	0.050	SW 60	10B
TCLP-Silver, ICP	2770	4796	<0.050	mg/L	0.050	SW 50	108
PCBs 8082 NonAqueous						SW 80	82
PCB-1016	475	885	<50	ug/Kg	50	SW 80	82
PCB-1221	475	885	<50	ug/Kg	50	SW 80	92
PCB-1232	475	865	<50	ug/Kg	50	SW 80	82

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

	_	_				
	Prep	Run	Blank		D	Analytical
	Batch	Batch	Analysis	77 b. 	Reporting Limit	Method
Analyte	Number	Number	Results	Units	Limic	Method
PCB-1242	475	885	<50	ug/Kg	50	SW 8082
PCB-1248	475	885	<50	ug/Kg	50	SW 8082
PCB-1254	475	885	<5C	ug/Kg	50	SW 8082
PCB-1260	475	885	<50	ug/Kg	50	SW 8082
Surr Tetrachloroxylene (TCX)	475	885	.101.0	*	59-118	SW 8082
Surr Decachlorobiphenyl (DCB)	475	885	106.0	*	55-132	SW 8082
PCBs 8082 NonAqueous						SW 8082
PCB-1016	475	884	<50	ug/Kg	50	SW 8082
PCB-1221	475	884	<50	ug/Kg	50	SW 8092
PCB-1232	475	884	<50	ug/Kg	50	SM 8085
PCB-1242	475	884	<50	ug/Kg	50	SW 8082
PCB-1248	475	884	<50	ug/Kg	50	SW 8082
PCB-1254	475	884	<50	ug/Kg	50	SW 8082
PCB-1260 ·	475	884	<50	ug/Kg	50	SW 8082
Surr: Tetrachloroxylene (TCX)	475	884	109.0	ŧ	59-118	SW 8082
Surr. Decachlorobiphenyl (DCB)	475	884	112.0	*	55-132	SM 8C82
TCLP-ACID COMPOUNDS 8270						SW 8270B
TCLP-o-Cresol	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-map Cresol	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-Pentachlorophenol	718	1647	<0.50	mg/L	0.50	SW 8270B
TCLP-2,4,5-Trichlorophenol	718	1647	<0.50	mg/L	0.50	SW 82709
TCLP-2,4,6-Trichlorophenol	718	1647	<0.10	mg/L	0.10	SW 8270B
Surr: Phenol-d6	718	1647	35.0	ŧ	10-94	SW 8270B
Surr: 2-Fluorophenol	718	1647	52.5	ŧ	21-100	SW 8270B
Surr: 2,4,6-Tribromophenol	718	1647	84.5	*/	10-123	SW 8270B
TCLP-VOLATILES 8260			- •			SW 8260B
TCLP-Benzene		3283	<ì.0	ug/L	1.0	SW 8260B
TCLP-Carbon Tetrachloride		3283	<1.0	ug/L	1.0	SW 8260B
TCLP-Chlorobenzene		3283	<1.0	ug/L	1.0	SW 8260B

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

	Prep	Run	Blank			
	Batch	Batch	Analysis	Sec. 1	Reporting	Analytical
Analyte	Number	Number	Results	Units	Limit	Method
TCLP-Chloroform		3283	<1.0	ug/L	1.0	SW 8260B
TCLP-1,4-Dicalorobenzene		3283	<1.0	ug/L	1,0	SN 82608
TCLP-1,2-Dichloroethane		3283	<1.0	ug/L	1.0	SW 8260E
TCLP-1,1-Dichloroethene		3283	<1.3	ug/L	1.0	SW 8260B
TCLP-Methyl Ethyl Ketone		3283	<20	ug/L	20	SW 82608
TCLP-Tetrachloroethene		3283	<1.0	ug/L	1.0	SM 8260B
TCLP-Vinyl Chloride		3283	<2.0	ug/L	2.0	SW 8260B
Surr: Dibromofluoromethane		3283	86.0	t	75-130	SW 8260B
Surr: Toluene-d8		3283	96.0	k	95-117	SN 8260B
Surr Bromofluorobenzene		3283	100.0	k	80-116	SW 8260B
TCLP-VOLATILES 8260						SN 8250B
TCLP-Benzene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Carbon Tetrachloride		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Chlorobenzene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Chloroform		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-1, 4-Dichlorobenzene		3295	<1.0	ug/L	1.0	SW 8260B
TCLP-1, 2-Dichloroethane		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-1,1-Dichloroethene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Methyl Sthyl Ketone		3285	<20	ug/L	20	SW 8260B
TCLP-Tetrachloroethene		3285	<1.0	ug/L	1.0	SW 9260B
TCLP-Trichioroethene		3285	<1.0	ug/L	1.0	SW 8260B
TCLP-Vinyl Chloride		3285	<2.0	ug/L	2.0	SW 8260B
Surr: Dibromoflucromethane		3285	104.0	*	75-130	SW 82609
Surr: Toluene-d3		3285	106.0	ŧ	85-117	SW 8260B
Surr: Bromofluorobenzene		3285	106.0	*	80-116	SW 8260B
TCLF BASE NEUTRAL COMPOUNDS			· · · · · · · · · · · · · · · · · · ·			SW 8270B
TCLP-1,4-Dichlorobenzene	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-Rexachloroethane	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-Nitrobenzene	718	1647	<0.10	mg/L	0.10	SW 8270B

Advisory Control Limits for Blanks:



BLANK ANALYSIS

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

		•	n)			
	Prep	Run	Blank			
	Batch	Batch	Analysis		Reporting	Analytical
Analyte	Number	Number	Results	Units	Limic	Method
TCLP-Hexachlorobutadiene	718	1647	<0.10	mg/L	0.10	SW 3270B
TCLP-2,4-Dinitrotoluene	718	1647	<0.10	mg/L	0.10	SW 8270B
TCLP-Hexachlorobenzene	718	1647	<0.10	mg/L	0.10	SK 5270B
TCLP-Pyridine	718	1647	<0.10	mg/L	0.10	SW 92708
Surr: Nitrobenzene-d5	718	1647	80.0	*	35-114	SW 8270B
Surr: 2-Fluorobipnenyl	718	1647	79.0	*	43-116	SW 8270B
Surr: Terphenyl-d14	718	1647	86.0	1	33-141	SW 8270B

Advisory Control Limits for Blanks:



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106

Westmont, IL 60559 Mr. Tom Schwerha

11/16/1999

	Prep	สนก			
	Batch	Batch	True	Conc.	rcs
Analyte	Number	Number	Cone.	Found	<pre>\$ Recovery</pre>
Cyanide, total		680	3.186	0.189	101 6
Cyanide, total		680	0.186	0 193	103.8
Cyanide, total		680	0.186	0.186	100.0
Cyanide, total		680	0.046	0.048	104.3
Cyanide, total		680	0 046	0 053	115 2
Cyanide, total		680	0.046	0 051	110.9
Cyanide, total		682	0 186	0 197	105.9
Cyanide, total		682	0 186	0 197	105.9
Cyanide, total		682	0.186	0.200	107.5
Cyanide, total		682	0.186	0 202	108.6
Cyanide, total		682	0 046	0 050	138.7
Cyanide, total		682	0 046	0 051	110.9
Cyanide, total		682	0.046	0 054	117.4
Cyanide, total		€82	0.046	0 040	87.0
TCLP-Arsenic, ICP	2764	4606	1.00	1 02	102.0
TCLP-Arsenic, ICP	2770	4606	1.00	0 940	94.0
TCLP-Barıum, ICP	2764	4608	1.00	1.62	102.0
TCLP-Barium, ICP	2770	4608	1.00	0.954	95.4
TCLP-Cadmium, ICP	2764	5490	0.500	0.509	101.8
TCLP-Cadmium, ICP	2770	5490	0.500	0 474	94.8
TCLP-Chromium, ICP	2764	4590	1.00	1 01	101.0
TCLP-Chromium, ICP	2770	4590	1.00	0.946	94.6
TCLP-Lead, ICP	2754	4796	1.00	1.01	101.0
TCLP-Lead, ICP	2770	4796	1 00	0 938	93.8
TCLP-Mercury, CVAA	1422	1284	0 0025	0.00252	100.8
TCLP-Mercury, CVAA	1422	1284	0.0025	0 00252	100.8
TCLP-Selenium, ICP	2764	4412	1.00	1.02	102.0
TCLP-Selenium, ICP	2770	4412	1.00	0.932	93.2
TCLP-Silver, ICP	2764	4796	0.500	0.478	95.6
TCLP-Silver, ICP	2770	4796	0.500	0.421	84.2
PCBs 8082 NonAqueous					



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

	Frep	Run			
	Batch	Batcn	True	Conc.	LCS
Analyce	Number	Number	Cone.	Found	t Recovery
PCB-1016	475	865	166.7	196.9	118.1
PCB-1260	475	862	165.7	184.2	110.5
Surr: Tetrachloroxylene (TCK)	475	865	100	99	99.0
Surr: Decachlorobiphenyl (DCB) PCBs 8082 NonAqueous	475	865	100	102	102.0
PCB-101€	475	384	166 7 "	194.0	116 4
PCB-1260	475	384	166 7	182 4	109.4
Surr: Tetrachloroxylene (TCX)	475	884	100	109	109.0
Surr: Decachlorobiphenyl (DCB)	475	884	100	119	110 0
TCLP-ACID COMPOUNDS 8270					
TCLP-o-Cresol	718	1647	80	57	71.3
TCLP-m&p Cresol	718	1647	80	51	63.8
TCLP-Pentachlorophenol	718	1647	80	56	79.0
TCLP-2,4,5-Trichlorophenol	718	1647	80	65	81.3
TCLP-2,4,6-Trichlorophenol	718	1647	80	65	81.3
Surr: Phenol-d6	718	1647	200	57	33.5
Surr: 2-Fluorophenol	718	1647	200	98	49 0
Surr: 2,4,5-Tr_bromophenol	718	1647	200	157	78 S
TCLP-VOLATILES 8250					
TCLP-Benzene		3283	20.0	20.0	100.0
TCLP-Chlorobenzene		3283	20.0	18.0	90 0
TCLP-1,1-Dichloroethene		3283	20.0	23.0	115.0
Surr: Dibromofluoromethane		3283	50.0	46.0	92 0
Surr: Toluene-d8		3283	50.0	46.0	96 D
Surr: Bromofluorobenzene		3283	50.0	51.0	102 0
TCLP-VOLATILES 8260					
TCLP-Benzene		3285	20.0	20.0	100.0
TCLP-Chlorobenzene		3285	20.0	19.0	95.0
TCLP-1,1-Dichloroethene		3285	20.0	19.0	95.0
TCLP-Trichloroethene		3285	20.0	20.0	100.0
Surr. Dibromofluoromethane		3285	50.0	53.0	106 0



LABORATORY CONTROL STANDARD

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

	Prep	Run			
	Batch	Batch	True	Conc.	LCS
Analyte	Number	Number	Conc.	Found	* Recovery
Surr: Toluene-d8		3285	50.0	53.0	106 0
Surr: Bromofluorobenzene		3285	50.0	52.0	104.0
TCLP BASE NEUTRAL COMPOUNDS					
TCLP-1,4-Dichlorobenzene	718	1647	80	53	66.3
TCLP-Hexachloroethane	718	1647	80	50	62.5
TCLP-Nitrobenzene	718	1647	180 🐣	62	77.5
TCLP-Hexachlorobutadiene	718	1647	80	46	57.5
TCLP-2,4-Dimitrotoluene	718	1647	80	70	87.5
TCLP-Hexachlorobenzene	718	1647	80	71	88.8
TCLP-Pyridine	718	1647	80	35	43.8
Surr: Nitrobenzene-d5	718	1647	100	80	60 O
Surr: 2-Fluorobiphenyl	718	1647	100	84	84.0
Surr: Terphenyl-d14	718	1647	100	8.3	83.U



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

	Prep	Run	Matrix						MSD			
	Batch	Batch	Spike	Sample	Spike		Percent	MSD	Spike		Percent	MS/MSD
Analyte	Number	Number	Result	Result	Amount	Units	Recovery	Result	Amount	Units	Recovery	RPD
Cyanide, total		680	329	315	44.6	mg/kg	31.4	298	45.9	mg/kg	0.0	99
Cyanide, total		680	37.5	1.70	45.5	mg/kg	78 7	41.0	46 4	mg/kg	84.7	8.9
Cyanide, total		680	44.5	0.47	50.5	mg/kg	87 4	40 1	44.2	mg/kg	89.6	10.7
Cyanide, total		682	45.1	<0.28	53.9	mg/kg	83.7	44.9	51.8	mg/kg	86.6	0 5
Cyanide, total		682	42.5	<0.25	48.3	mg/kg	88.2	37.4	46.9	mg/kg	79.7	13 C
TCLP-Arsenic, ICP	2764	4609	1.02	<1 0	1.00	mg/L	102.0	0 960	1.90	mg/L	96.0	6.1
TCLP-Arsenic, ICP	2770	4606	0.910	<0.20	1.00	mg/L	91.0	0.942	1.00	mg/L	94.2	3.5
TCLP-Barium, ICP	2764	4611	1.57	0.637	1 00	mg/L	93.3	1.57	1.00	mg/L	93.3	0.0
TCLP-Barium, ICP	2770	4608	1.23	0.332	1.00	mg/L	89.8	1.28	1.00	mg/L	94.B	4.3
TCLP-Cadmium, ICP	2764	5493	2.59	2.28	0.500	mg/L	62.0	2.57	C.500	mg/L	58.0	0.8
TCLP-Cadmium, ICP	2770	5490	0.437	<0 010	0.500	mg/L	87 4	0.455	0.500	mg/L	91.0	4.0
TCLP-Chromium, ICP	2764	4593	0.990	<0.200	1.00	mg/L	99.0	0.983	1.00	mg/L	98.3	0.7
TCLP-Chromium, ICP	2770	4590	0.910	<0.040	1.00	ng/L	91.0	0.939	1.00	mg/L	93.9	3.1
TCLP-Lead, ICP	2764	4799	1.06	<1.0	1.00	mg/L	106.0	1.03	1.00	mg/L	103.0	2.9
TCLP-Lead, ICP	2770	4796	0.904	<0 200	1.00	mg/L	90.4	0.935	1.00	mg/L	93.5	3.4
TCLP-Mercury, CVAA		1284		98.4		*				ŧ		
TCLP-Mercury, CVAA		1284		99.6		*				ŧ		
TCLP-Mercury, CVAA	1422	1284	9.00258	<0.0002	0.0025	mg/L	103.2	0.0025	0.0025	mg,′ī∟	103.2	0.0
TCLP-Mercury, CVAA	1422	1284	0.00269	<0.0002	0.0025	mg/L	107.6	0.0026	0.0025	mg/L	107.6	0.9
TCLP-Selenium, ICP	2764	4415	1.04	<1.0	1.00	mg/L	104.0	1.10	1.00	mg/L	110.9	5.6
TCLP-Selenium, ICP	2770	4412	0.990	<0.20	1.00	mg/L	99.0	0.977	1.00	mg/L	97.7	1.3

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the NS/MSD pair should be less than 20.

MS = Matrix Spike

NSD - Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix Spike and Matrix Spike Duplicate results.

Page 26 of 28



MATRIX SPIKE/MATRIX SPIKE DUPLICATE

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
TCLP-Silver, ICP	2764	4799	0.479	<0 250	0.500	mg/L	95.8	0 467	0 500	mg/L	93.4	2.5
TCLP-Silver, ICP	2770	4796	0.388	<0.050	0.500	mg/L	77 6	0.422	0.500	mg/L	84 4	B.4
PCBs 8082 NonAqueous												
PCB-1016	475	885	255	<61	197	ug/kg	129.5	256	201	ug/kg	127.4	0.2
PCB-1260	475	885	245	<61	197	ug/kg	124.2	245	201	ug/kg	122 1	0.0
TCLP-VOLATILES 8260												
TCLP-Benzene		3283	20.0	<1 0	20.0	ug/L	100.0	20.0	20 0	ug/L	100.0	0.0
TCLP-Chlorobenzene		3283	20.0	<1,0	20.0	ug/L	100.0	20.0	20.0	ug/L	100.0	0.0
TCLP-1,1-Dichloroethene		3283	20.0	<1.0	20.0	ug/L	100.0	20 0	20.0	ug/L	100.0	0.0
TCLP-VOLATILES 8260												
TCLP-Benzene		3283	21	<1 0	20.0	ug/L	105.0	20	20.0	ug/L	100.0	4.9
TCLF-Chlorobenzene		3283	18	<1.0	20.0	ug/L	90.C	17	20.0	ug/L	85.0	5.7
TCLP-1,1-Dichloroethene		3283	21	<1 D	20.0	ug/L	105.0	20	20 0	ug/L	100.0	4.9
TCLP-VOLATILES 8260												
TCLP-Benzene		3285	19	<1.0	20.0	ug/L	95.0	18	20.0	ug/L	90.0	5.4
TCLP-Chlorobenzene		3285	19	<1.0	20.0	ug/L	95.0	19	20.0	ug/L	95.0	0.0
TCLP-1,1-Dichloroethene		3285	18	<1.0	20.0	ug/L	90.0	18	20.0	ug/L	90.0	0.0
TCLP-Trichloroethene		3285	15	<1.0	20.0	ug/L	95.0	19	20.0	ug/L	95.0	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS - Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RFD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

Page 27 of 28

850 W. BARTLETT RD./ BARTLETT, IL 60103 / 630-289-3100 / FAX: 630-289-5445 / 800-378-5700



DUPLICATES

KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559
Mr. Tom Schwerha

11/16/1999

NET Job Number: 99.12163

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
Solids, Total		3123	1.6	1 7	ŧ	6.1
Solids, Total		3123	90.7	90.0	*	0.8

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

Page 28 of 28

850 W. BARTLETT RD./ BARTLETT, IL 60103 / 630-289-3100 / FAX: 630-289-5445 / 800-378-5700



TestAmerica, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

٠	: Less than, When appearing in the results column indicates the analyte was not detected at or above the reported value
mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb;
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb)
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
*	: Fercent: To convert ppm to %, divide the result by 10,000 To convert % to ppm, multiply the result by 10,000.
ICF	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions
Method Ref	erences
(1)	Methods 1000 through 9999 see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
(4)	See "Standard Methods for the Examination of Water and Wastewater", 17th Ed. АРНА, 1589
(5)	Methods 600 through 625: see *Guidelines Establishing Test Procedures for the Analysis of Pollutants*, USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Mathods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.
	850 W. BARTLETT RD./ BARTLETT, IL 60103 / 630-289-3100 / FAX: 630-289-5445 / 800-378-5700



(8)	See *Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986. Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

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and Part 121 of Act 451, 1994, a amended.

Failure to file may subject you to criminal and/or civil penalties under Sectio 324 11151 or 324.12116 MCL

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LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. 1-94 Service Drive
Belleville, MI - 48111
EDA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Ge	nerator Add	ne 6500 Industri Iress 6499 INDUSTRI	AL HIGH	WAY GAR	PYIIN	464	106	
		No					8014907	
				Instructions				
•	In Column	1 identify all USEPA hazard	lous waste co	des that apply to the	ais waste shipm	ient.		
•		2, choose the appropriate tr					vater (WW).	
•	In Column	3, enter the appropriate Su be treated using one of the al-	bcategory, if	f applicable, and a	lso enter "Con	tamina	ted Soil" or "Debris	
•	In Column	4, circle the letter of the app	ropriate par	agraph from Pages	1-2 of this form	m.		
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HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

Printed Name

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A

(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOFT TREATMENT STANDARDS

(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally, examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and

believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification,

have been properl	erify the wastes specified on Manifest #	•
	· · · · · · · · · · · · · · · · · · ·	₹ ·
FACILITY NAME. (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D # MID048090633)
ADDRESS.	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	· ·
FAX NUMBER:	1-800-592-5329	



Authorized Signature:



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

SWASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, amended

Failure to file may subject you to cri nat and/or civil penalties under Sect 324 11151 or 324 12116 MCL

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LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:
Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

O Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
FPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name 6500 Industrial Highw	On Generator USEPA ID No. INO	040888992
Generator Address 6499 INDUSTRIAL HIGHIN	AY GARY, IN 46406	
State Manifest No	Manifest Doc. No. MI 80	14908

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item	1. USEPA	2. NWW	3. SUBCATEGORY	4. HOW MUST THE	5. REFERENCE NUMBER(S) of Hazardous Constituents
#	HAZARDOUS	or WW	JOBCATEGORI	WASTE BE	contained in the waste.
	WASTE CODE(S)	ww		MANAGED? (Circle one)	Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.4	D040, D008	D NWW W W	N/A	ABCDEF GHIJKL MS	204
11.B		□ www □ ww		ABCDEF GHIJKL MS	
11.C		□ www		A B C D E F G H I J K L M S	
11.D		□ www □ ww		A B C D E F G H I J K L M S	

		Juww	M	S	
I hereby certify that a	all information submitt	ed on this and all associa	ated documents	is complete and	accurate to the best of my
knowledge and inform				AGONT F	For 6500
Generator Signature	There &	7 Resures	Title	IUDUSTEI	OL HIGHWAY GROUP
Printed Name	THOMAS J.	RYSIEWICZ	Date	FOBL	UPRY 24, Z000

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification.

This certificate is to v	erify the wastes specified on Manifest #	1908
have been properl	y disposed of in accordance with all local, state and fe	ederal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 40) CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329 () Oplus	



Authorized Signature:



AL- SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7880 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8709-22 (Rev. 9/88)

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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ATT.

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and Part 121 of Act 451, 1994, amended

Failure to file may subject you to crir PR. OMB No 2050-0039

EQP 5110

Rev. 5/98

Ple	ase	print or type				Fo	orm Approved OM	B No 2050	0-0039
		UNIFORM HAZARDOUS WASTE MANIFEST	Generator's US	10888992	Manifest Decyment Vo	2 Pag			ne shaded areas ed by Federal
	3	Generator's Name and Mailing Addig		O Industrual Hig	pray Group	A. St	ate Manifest 0 11 801 4 8	000 men	it Number
			•			B. St	ate Generator:	s ID	
	5	Generator's Phone () Transporter 1 Company Name	L' 6	ICU CO E	Number -	C:St	ate Transporte	⊷ 'Di"وا	pm分子/面積的高速。
	,	Transporter 2 Company Name	4 5 G 4 8	US EPA ID			nsporter's Pho ate Transporter		
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		HELLEVILLE, MICHIGAN 46111		MALIANIA I AANS.	<i>,</i>	HAFE	cility's Phone	i 657 20	00
		. US DOT Description (including Proper HM ID NUMBE	R).	. **	12 Con	Type	13 Total Quantity	14 Unit W/Vol	I Waste No:a W
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GENERATOR 2ND COPY



LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name	6500 Industr	ial Highway	Graya enerator US	EPA ID No	040888992
Generator Address	6499 INDUSTR	IAL HIGHWAY	GARY 13	IN 46406.	
State Manifest No			Manifest Doc.	No. MI	80.14-909

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EO Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item #	i. USEPA HAZARDOUS WASTE	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED?	5 REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039,
	CODE(S)	. "		(Circle one)	D001-D043, Soil & Debris wastes.
11.A	D040, D008	D NWW	N/A	ABCDEF GHIJKL MS	204
11.B		□ www □ ww		ABCDEF GHIJKL MS	
11.C	`	□ www □ ww		A B C D E F G H I J K L M S	
11.D		□ www □ ww		ABCDEF GHIJKL MS	

<u> </u>	U WW	IV)	<u> </u>	
I hereby certify that all information submitted (on this and all associ	ated documents is	s complete a	and accurate to the best of my
knowledge and information.		/	465UT	For. 6500
Generator Signature Them.	extremin	Title	[NOUST,	RUAL HIGHWAY GROUP
Printed Name THOMAS J. RYS	I GUICZ	Date	FEB	RUNRY 24, 2000

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A

(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and

believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification.

This certificate is to ve	erify the wastes specified on Manifest #	1909
have been properly	y disposed of in accordance with all local, state and for	ederal regulations.
"Disposed of	f" means either: 1) Burial or 2) Processed as specified in 40	OCFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	:
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	lugal Salve 5	





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WASTE MANAGEMENT DIVISION **MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

DO	NOT WRITE IN	THIS	SPACE
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LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 678

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
FPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc. (Solvent Recycling, Field Elending & Wastewater Treatment) 36345 Van Born Road Romulus Mi (8174 EPA ID # MID 060 975 844

Generator Name 6500 Industrial Highway Gro	Generator USEPA II	No. INDO40 088992
Generator Address 6499 INDUSTRIAL HIGHWAY	GARY IN	46406
State Manifest No	Manifest Doc. No	MI 8014-910

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest	1.	2.	3.	4.	5. REFLEENCE NUMBER(S)
Line Item	USEPA	NWW	SUBCATEGORY	HOW MUST THE	of Hazardous Constituents
#	HAZARDOUS	or		WASTE BE	contained in the waste.
	WASTE	ww		MANAGED?	Complete for F001-F005, F039,
{ i	CODE(S)			(Circle one)	D001-D043, Soil & Debris wastes.
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I hereby certify that all information submitted on this and all associated	documents is complete and accurate to the best of my
knowledge and information.	AGOUT 1FOR 6500
Generator Signature Thorn J. Rysieurs	Title INDUSTRIAL HIGHWAY GROUP
Printed NameTHOMAS J. RYSIEWICZ	Date FLBEUTRY Z4, Z000

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A

(CERCLE ONE)

(CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CIRCLE ONE)

4.5 PROVIDED BY 268 40(4) OR THE UNIVERSAL TREATMENT STANDARDS | Logistic under personal to a logistic product of law that I have represent

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification,

This certificate is to ve	erify the wastes specified on Manifest #	80/4910
have been properly	y disposed of in accordance with all local, sta	ate and federal regulations.
"Disposed o	f" means either: 1) Burial or 2) Processed as spec	cified in 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Pla (EPA I.D # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	afril we	





WASTE MANAGEMENT DIVISION

nequired under authority or Part 1 and Part 121 of Act 451, 1994, amended

5,	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY	DO NOT WRITE IN T	THIS SPAC	E PR.□	naland/	or civil p	iy subject you to enalties under S 4 12116 MCL
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	5 Transporter 1 Company Name	BOG ICOUSTA PATE	nber	C. State Tra	ansporter	's ID	
	7. Transporter 2 Company Name	8 US EPA ID Nun	nber	E State Tra F Transpor	insporter	's ID	17
	9. Designated Erchyk National Addition (1996) NORTH HA SERVICE CHIVE PRILEVELE, MICHIGAN 48111	PLANI ¹⁰ . US EPA ID Nun MID000724831		G. State Fa	cility's II		er sende en
1	11. US DOT Description (including Proper Shipping	Name, Hazard Class, and	12 Contai	ners	13 Total	STATE OF THE STATE OF	l. Waste
G E	a: I LEAD), P. NASOTT, P.C. III. N. LEAD), P. NASOTT, P.C. III.	O.S.(TRICHLOROETRYLEA	No DO 1 ID	Type Qu	antity	t3	NO VALE DO40
N E R		•			000	T	
A T O R	b. 🚨					,	
	с. Д						
	d. Cl	wage company where the deposit on the first of the second					
TO SECURE OF THE PARTY OF THE P	J. Additional Descriptions for Materials Clated At APPROVAL. 021800MJ	DOVE COOS					K Handling Cod Wastes Listed A
	15. Special Handling Instructions and Additional Int 24 HOUR EMERGENCY CONTACT		357		(25.	OZ	TONS)
	16. GENERATOR'S CERTIFICATION I hereby declare that the classified, packed, marked, and labeled, and are in all respects in if I am a large quantity generator, I certify that I have a to be economically practicable and that I have selected to present and future threat to human health and the environgeneration and select the best waste management method that is Printed/Typed Name THE MASS RESIDENCE.	proper condition for transport by highway program in place to reduce the volum he practicable method of treatment, soment; OR; If I am a small quantity available to me and that I can afford.	according to ap le and toxicity storage, or dis	plicable Interna of waste gen posal currentl ave made a (bove by pritional and nierated to to	oper sh ational g he degre to me effort to	ipping name and overnment regulated in have determined which minimizes
	17. Transporter 1 Acknowledgement of Receipt of I	Materials Signature	y, Le	de de			Date
	18. Transporter 2 Acknowledgement of Receipt		-				Date
	Printed/Typed Name	Signature		-			Ionth Day Y
1	19 Discrepancy Indication Space						
۔ ۔	20. Facility Owner or Operator, Certification of receipt	of hazardous materials covered	by this man	fest except	as noted	ın	

	fication of receipt of hazardous materials of	covered by this manifest ex	cept as noted in
Item 19		,	. Г
Printed/Typed Name	Signature		N

EPA Form 8700-22 (Rev. 9/88)

GENERATOR 2ND COPY

Date

ᡚ Land Disposal Re	STRICTIO
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	6	Q LAND DISPOSA	L RESTRIC	TION & CE	RTIFICATIO		
Pi	Michi Tr (Stabiliz 49350 N Belle	e facility you are shipping to: gan Disposal Waste eatment Plant ation and Treatment) J. 1-94 Service Drive eville, MI 48111 # MID 000 724 831	Subti (Secure Haza 49350 N.) Bellev	ne Disposal, Inc itle C Landfill rdous Waste Lan I-94 Service Driv ille, MI 48111 MID 048 090 63	(Solve adfill) e	en W	tems, Inc ading & at) at
Ge	nerator Na	me 6500 Industr	ial Highwa.	1 Gra Generati	or USEPA ID No.	IND 040	888992
		dress 6499 INDUSTR					
Sta	te Manifest	No		Manifest	Doc. No. <u>7</u>	8014	911
•	In Column	1 identify <u>all</u> USEPA hazar 2, choose the appropriate to 3, enter the appropriate So be treated using one of the a	dous waste codes a reatability group: ubcategory, if app	Non-Wastewater olicable, and also	r (NWW) or Wastev enter "Contamina	tr	" if the oris)
•	In Column	4, circle the letter of the app 5, for F001-F005, F039, D00 ce GuideLDR/UHC Cousti	1-D043, Debris &	: Contaminated S	Soil wastes, enter th		(5) from the :.
	Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW - SU or WW	J. JBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	-	MIBER(S) stituents waste. 705, F039, thris wastes.
	11.A	D040, D008	DNWW N	'/A :	ABCDEF GHIJKL MS	-	
	11.B		□ www □ ww	N	G H I J K L M S	•	
	11.C		□ NWW □ WW		A B C D E F G H I J K L M S	-	
	11.D		□ NWW □ WW	A G M	HIJKL		
knov	vledge and i	that all information submitted of ormation. ture	Rysiein CY(16Wicz		AGUNT A LE INDUSTRIA	FOR 6: L HIGHU	24, 2000
For S	circle the ap	propriate response for the 3 ita	HOW MUST THE licized options:	WASHELDEWAN	IGED:		
S.	THIS CONT	AMINATED SOIL DOES / DO.	ES NOT CONTAIN	LISTED HAZARI	DOUS WASTE AND	• :	CXHIBIT A

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SO (CIRCLE ONE) AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under pe examined and am familiar with the treatment technology and operation of the treatment process used to believe that it has been maintained and operated properly so as to comply with treatment standards spec impermissible dilution of the prohibited wastes. I am aware that there are significant panalties for culm

(CIRCLE ONE)

S.

ve personally. ition and 19 without

4:--

CANDARDS

1.

This certificate is to v	erify the wastes specified on Manifest #	14911
have been proper	ly disposed of in accordance with all local, state and f	ederal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 4	0 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I D. # MID000724831)	Wayne Disposal, Inc. (EPAID. # MID048090633)
ADDRESS	49350 N I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	Ol John	•



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4708 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

~ (10)

DO	NOT	WRITE	IN	THIS	SPACE

DO	NOT WRITE II	N THIS SPAC	E
ATT. 🗌	DIS. 🗌	REJ. 🗌	PR. 🗌

mequired under authority of Part and Part 121 of Act 451, 1994, amended

Failure to file may subject you to cri nal and/or civil penalties under Sect 324 11151 or 324 12116 MCL

Rev. 5/98

APPROVALY 15. Special Handling Instructions and Additional Information 2d I M.A. EARTHCENCY CONTACT: 219 10. GENERATOR'S CERTIFICATION 1 hereby declare that the contents of this consignment are fully and accurately described above by proper ship classified, peaked, marked, and are in all respects in proper condition for transport by highway according to applicable internation and an area of the service of		rm Approved OMB No 205					<u></u>			print or	se
### SOUTH STATE OF THE PROPERTY OF THE PROPERT	ed by Federa	is not require	of	lanifest iment No	OBBROD) Docu						
Second S		18014916 te Generator's ID	MIS B. State Ge	y Group	O Industrial Highway	COMPANY 6	ation Chemical Durial Holomoy 46406	COMPERVA CARY, IN 4	-		
Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). 11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). a. DB RO, HAZARDOUS WASTE SOLID, NO.S. (TRICHLOROPTHYTERE DOT) IT IN IT	1)-5-11-0	nsporter's Phone	D. Transport	25	TCD 1078148	# 1	ny Name	1 Compan	sporter	Tran	5
Design	्रा चित्रं क्षण है के के किया इस्तार कर के के के के	· · · · · · · · · · · · · · · · · · ·		oer	OS EPA ID NUME		ny Name	2 Company	sporter	iran	′
RELIFICATION (Including Proper Shipping Name, Hazard Class, and HA Facility Phone 10 NUMBER). a. St. RO, SLAZARDOUS WASTE SOLID, NO.5. STRICHLOROPTHYLENE OIL TANABATE SOLID, NO.5. STRICHLOROPTHYLENE O	100 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 m 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg 200 mg			oer	US EPA ID Numb	idress, et al.	me and Site Ad	Facility Na	gnated	Desi	9
11 US DOT Description (including Proper Shipping Name, Hazard Class, and HAZARDOUS WASTE SOLID, N.O. STRICHLOROPTHYLERE DOI: 107 Unit May No. Type B. RO, HAZARDOUS WASTE SOLID, N.O.S. (TRICHLOROPTHYLERE DOI: 107 LEAD), P.N.S. 107 PCHIL C. C. C. C. C. C. C. C. C. C. C. C. C. C	and the state of the state of	न्त्रक राज्यातिक विकास स्थापित विकास	ल्या स्टेडिस्स स्टू		MID000724831		4 SERVICE DRIVE	O AKOPRTIH 194	49360		
HM DOUBLER). a. bg RO, MAZARDOUS WASTE SOLID, NO.S. TRICHLOROPTHYIERE DOI: 107 22.39 b D D Additional Descriptions to Materials Listed Above ACPPROVICES DOI: 107 107 107 107 107 107 107 107 107 107	I. Waster €	_13 14	iners	12 Conta	lazard Class, and	Shipping Name	ncludina Proper	scription (in	DOT De	us (11
B. B. RO, HAZARDOUS WASTE SOLID, N.O.S. (TRICHLORORTHY) ENE LEAD), S. NASO77, P.G. III D. J. Additional Descriptions for Materials Listed Above SEPTROVALY D. 1000M. D. 101 15. Special Handling Instructions and Additional Information 24 H.M.R. ENERGENCY CONTACT: 279 - 149 - 357 16. GENERATOR'S CERTIFICATION. I hereby decises that the contents of this consignment are fully and accurately described above by proper only desired the season of	No. 17			No		<i>R</i>).	ID NUMBE				
d] APPROVALE DESCRIPTION NO. DONE: 15. Special Handling Instructions and Additional Information 2d HMLR EMERGENCY CONTACT: 219 - 199 1357 16. GENERATOR'S CERTIFICATION I hereby declare that the contents of this consignment are fully and accurately described above by proper ship dasalfied, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national got if I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxid or wate generated to the degree to be accommically practicable and that I have selected the pre-fields method and selective between the southern and that I can afford. Printed/Typed Name Signature M 18 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M 19 Discrepancy Indication Space	DOAO	77 20	72	1	ichloroethyi ene	OLIDA O.S.(I	Dous Waste 8 3077,PGH), Hazart (Ad),v,na)	R	21	a .
Additional Descriptions for Materials Listed Above 3. ACTIONAL DORS 15. Special Handling Instructions and Additional Information 24 HMAR ENERGENCY CONTACT: 2.19 - 1.0.4											b
APPROVALY OZ 1600MY DOIS APPROVALY OZ 1600MY DOIS 15. Special Handling Instructions and Additional Information 24 HOLER EMERGENCY CONTACT: Z17 - 1.4.4 3.5.7 16. GENERATOR'S CERTIFICATION I hereby declare that the contents of this consignment are fully and accurately described above by proper ship classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national got if I am a large quantity generator, I certly that I have a program in place to reduce the volume and toolety of waste generated to the degree to be accommically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me y present and future threat to human health and the environment, OR, If I am a small quantity generator, I have made a good faith effort to generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature M Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M Signature M Joscrepancy Indication Space							,				С
APPROVALE 15. Special Handling Instructions and Additional Information 24 HOLER EMERGENCY CONTACT: 279 - 179 -								-		.]	d
16. GENERATOR'S CERTIFICATION I hereby declare that the contents of this consignment are fully and accurately described above by proper shirt classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national go if I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me version and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature M 17 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M 19 Discrepancy Indication Space			No. of		的。"我们是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个						
17 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M. 18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M. 19. Discrepancy Indication Space	overnment regula ee i have deterr which minimize	International and national go ste generated to the degre currently available to me	oplicable internate of waste gene sposal currently	and accurate ccording to a and toxicity orage, or di	this consignment are fully a litton for transport by highway ac place to reduce the volume ble method of treatment, sto, if I am a small quantity g	that the contents respects in proper of 1 have a program selected the practhe environment;	N I hereby declare I labeled, and are in all nerator, I certify that belle and that I have to human health and	CERTIFICATION of, marked, and le quantity genically practically true threat to	24 RATOR'S Red, packe m a large economi nt and fu	GENER classifing and to be preser	
17 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M 18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M 19. Discrepancy Indication Space	tonth Day	N		•	Signature	11 6 to 1.6	Mick T.	d Name	ed/Type	Printe	
Printed/Typed Name 18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M. 19. Discrepancy Indication Space 20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.	لللل				<u> </u>			 			<u> </u>
18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature M 19. Discrepancy Indication Space 20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.	Date Tonth Bay' Y		<i>!</i>	7 :	I Sanatura / /	ceipt of Materia	edgement of Rec				17
Printed/Typed Name Signature M 19. Discrepancy Indication Space 20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in litem 19.	i lili	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	£	1111	Signature /						
Printed/Typed Name Signature M 19. Discrepancy Indication Space 20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.	Date	_		_	- Jacqui	eipt of Materia	edgement of Rec	2 Acknowle	sporter	Trans	18
20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.	tonth Day Y				Signature						
20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		L				_					
Item 19							pace	Indication Sp	epancy	Discr	19.
	Date	xcept as noted in	ufest except	y this mar	dous materials covered b	of receipt of haz	itor Certification	er or Operat	ty Own	Facili Item	20
	lonth Day Y							d Name	ed/Type	Printe	
W/1815 - 12.10/ 1.1	1111	; ,	;		1, 1	.10/		1015	(VV)	;	
Form 8700-22 (Rev. 9/88)	EOP		7 : 1 '		14.5			Pov. 0/99)	00.33 (0.7	

GENERATOR 2ND COPY

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Trentment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
FDA ID#MID 048 090 633

☐ Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name 6500 Industrial Highway Gro	Cenerator USEPA ID No. INO 040 888 992	_
Generator Address 6499 INDUSTRIAL HIGHWAY	GARY, IN 46406	_
State Manifest No	Manifest Doc. No. MI 8014916	_

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EO Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D040, D008	D/NWW D WW	N/A	ABCDEF GHIJKL MS	204
11.B		□ www □ ww		A B C D E F G H I J K L M S	
11.C		□ www		A B C D E F G H I J K L M S	
11.D		□ www □ ww	1 1 (4)	A B C D E F G H I J K L M S	

		∪ ww	1 . 41		M	S	
•		itted on this an	d all asso	ciated o	locument	s is compl	lete and accurate to the best of my
knowledge and inf	ormation.	111				A6W	T FOR 6500
Generator Signatu	ire <u>Fieel</u> s	Kuller	· · · · · · · · · · · · · · · · · · ·	-	Title_	INOi	ISTEIAL HIGHWAY GROUP
Printed Name	FRED 6. Ki	ZIKAU			Date	2/2	5/2000

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)
(CIRCLE ONE)
(CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification.

This certificate is to v	erify the wastes specified on Manifest #	4416
have been proper	ly disposed of in accordance with all local, state and i	federal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 4	10 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I D. # MID000724831)	Wayne Disposal, Inc (EPA I.D # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER	1-800-592-5489	-;
FAX NUMBER	1-800-592-5329	
Authorized Signature	UTA Dahr	



Test/America

Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 08/04/1999

NET Job Number: 99.07904

IEPA Cert. No.: 100221 WDNR Cert. No.: 999447130 A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Proj. #17094

Sample	Sample Description	Date	Date
Number		Taken	Received
538324 538325 538326 538327 538328 5383329 538331 538332 538333 538333 538333 538333	CCCI/CT-S-1-1 CCCI/CT-S-1-2 CCCI/CT-S-2-1 CCCI/CT-S-2-2 CCCI/CT-S-3-1 CCCI/CT-S-3-2 CCCI/CT-S-4-1 CCCI/CT-S-4-2 CCCI/CT-S-5-1 CCCI/CT-S-5-1 CCCI/CT-S-5-1 CCCI/CT-S-5-1 CCCI/CT-S-5-1 CCCI/CT-S-5-1	07/22/1999 07/22/1999 07/22/1999 07/22/1999 07/22/1999 07/22/1999 07/22/1999 07/22/1999 07/22/1999 07/22/1999	07/23/1999 07/23/1999 07/23/1999 07/23/1999 07/23/1999 07/23/1999 07/23/1999 07/23/1999 07/23/1999 07/23/1999 07/23/1999

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary (Pearson Project Manager



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538324

Job No.: 99.07904

Sample Description:

CCCI/CT-S-1-1 Proj. #17094

Date Taken: Time Taken: 07/22/1999

10:35

Date Received: Time Received: 07/23/1999 10:35

Analyte	Result	Flag	Units	Reporting Limit	Dace Analyzed	Analyst Initials	Analytical Method
Solids, Total	53.4		,	0.1	08/02/1999	nws	SH 2540
TCLP Metals Extraction TCLP-Chromium,ICP	Leached		ng/L	0.040	07/28/1999 07/30/1999	tpl kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	9,550 <19		mg/kg dw mg/kg dw		08/02/1999 08/02/1999	jtt kaf	SW 6010B SWII 3060



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538325

Job No.: 99.07904

Sample Description:

CCCI/CT-S-1-2

Proj. #17094

Date Taken: 07/22/ Time Taken: 11:32 07/22/1999

Date Received: 07/23/1999

Time Received: 10:35

Analyte	Result	Plag	Units ·	Raporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	50.2		4	0.1	08/02/1999	ตพร	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached 0.121		mg/L	0.04C	07/22/1999 07/30/1999	tpl kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	9,760 <20		mg/kg dw mg/kg dw		08/02/1999 08/02/1999	jtt kaf	SW 6010B SWII 3060



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559 08/04/1999

Sample No. : 538326

Job No.: 99.07904

Sample Description:

CCCI/CT-S-2-1 Proj. #17094

Date Taken: 07/22/1999

Time Taken: 10:45

Date Received: 07/23/1999

Time Received: 10:35

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	71.7		*	0.1	08/02/1999	BWID	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached		mg/L	0.040	07/28/1999 07/30/1999	tpl kdw	'SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	2,930 <14		mg/kg dw mg/kg dw	2.8 14	08/02/1999 08/02/1999	jtt kaf	SW 6010B SWII 3060



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No.: 538327

Job No.: 99.07904

Sample Description:

CCCI/CT-S-2-2

Proj. #17094

Date Taken: 07/22/1999 Time Taken: 11:25

Date Received: 07/23/1999 Time Received: 10:35

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	47.6		ŧ	0.1	08/02/1999	nws	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached 0.094		mg/L	0.040	07/28/1999 07/30/1999	tp: kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	12,000 <21		mg/kg dw mg/kg dw		08/02/1999 08/02/1999	jtt kaf	SW 6010B SWII 3060

Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538328

Job No.: 99.07904

Sample Description:

CCCI/CT-S-3-1

Proj. #17094

Date Taken: Time Taken:

07/22/1999

10:55

Date Received: 07/23/1999

Time Received: 10:35

Analyte .	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	58.9		. *	0.1	08/02/1999	RIWS.	SM 2540
TCLP Metals Extraction TCLP-Chromium,ICP	Leached 0.114		mg/L	0.040	07/23/1999 08/04/1999	tpl jtt	2W 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	9,000 <17		mg/kg dw mg/kg dw	3.4 17	08/02/1999 08/02/1999	jet kai	SW 6010B 000E IIWS

Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES
414 Plaza Drive Ste. 106
Westmont, IL 60559

08/04/1999

Sample No. : 538329

Job No.: 99.07904

Sample Description:

CCCI/CT-S-3-2

Proj. #17094

07/22/1999 11:52 Date Taken:

Time Taken:

Date Received: 07/23/1999 Time Received: 10:35

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	41.1		* -	0.1	08/02/1999	RWID	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached 0.054		mg/L	0.040	07/28/1999 07/30/1999	tpl kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	7,790 <24		mg/kg dw mg/kg dw		08/02/1999 08/02/1999	jtt kaf	SW 6010B SWII 3060



Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No : 538330

Job No.: 99.07904

Sample Description: CCCI/CT-S-4-1 Proj. #17094

07/23/1999 10:35 Date Taken: Time Taken: 07/22/1999 11:00 Date Received: Time Received:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzeo	Analyst Initials	Analytical Method
Solids, Total	76.6		ŧ	0.1	08/02/1999	Bwm	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached 0.080		mg/L	0.040	07/28/1999 07/30/1999	cpl kdw	SW 1311 SW 6010B
Chromium, ICP	2,610		mg/kg dw		08/02/1999	jtt	SW 6010B
Chromium, Hexavalent	<13		mg/kg dw	13	08/02/1999	kaf	SWII 3060



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES

414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538331

Job No.: 99.07904

Sample' Description:

CCCI/CT-S-4-2 Proj. #17094

Date Taken: 07/22/1999 Time Taken: 11:45

Date Received: 07/23/1999 Time Received: 10:35

Analyte	Result	Flag	Units	Reporting :	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	53.2		•	0.1	08/02/1999	mws	SM 2540
TCLP Metals Extraction TCLP-Chromium,ICP	Leached <0.040		mg/L	0.040	07/28/1399 C7/30/1999	tpl kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	7,890 <19		J. J	3.8 19	08/02/1999 08/02/1999	juu ka£	SW 6010B SWII 3060



Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538332

Job No.: 99.07904

Sample Description:

CCCI/CT-S-5-1

Proj. #17094

Date Taken: Time Taken: 11:05

07/22/1999

Date Received: 07/23/1999

Time Received: 10:35

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	83.0		₹	0.1	08/02/1999	ечат	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached 0.055		mg/L	0.040	07/28/1999 07/30/1999	tpl kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	1,910 <12		mg/kg dw mg/kg dw		08/01/1999 08/02/1999	jtt kaf	SW 6010B SWII 3060



ANALYTICAL REPORT

Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538333

Job No.: 99.07904

Sample Description:

CCCI/CT-S-5-2 Proj. #17094

Date Taken: 07/22/1999 Time Taken: 12:05

Date Received: Time Received: 07/23/1999 10:35

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	84.6		ŧ	0.1	08/02/1999	ewm	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached		mg/L	0.040	07/28/1999 07/30/1999	tpl kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	189 <12		mg/kg dw mg/kg dw	2.4 12	08/02/1999 08/02/1999	jtt. kaf	SW 6010B SWII 3060



ANALYTICAL REPORT

Mr. David Pyles KRIKAU, PYLĖS, RYSIEWICZ & **ASSOCIATES** 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538334

Job No.: 99.07904

Sample Description:

CCCI/VT-S-6-1

Proj. #17094

Date Taken: Time Taken: 07/22/1999

Date Received: 07/23/1999

Time Received: 10:35

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	82.9		ŧ	0.1	08/02/1999	nws	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached		mg/L	0.046	07/28/1999 07/30/1999	tpl kdw	SW 1311 SW 60109
Chromium, ICP Chromium, Hexavalent	458 <12		mg/kg dw mg/kg dw		08/02/1999 08/02/1999	jtt kaf	SW 6010B



ANALYTICAL REPORT

Mr. David Pyles KRIKAU, PYLES, RYSIEWICZ & ASSOCIATES 414 Plaza Drive Ste. 106 Westmont, IL 60559

08/04/1999

Sample No. : 538335

Job No.: 99.07904

Sample Description:

CCCI/PIT-S-7-1

Proj. #17094

Date Taken: Time Taken: 07/22/1999 14:20

Date Received: 07/23/1999 Time Received: 10:35

Analyte	Result	Flag	Calinu	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Solids, Total	95.6		• •	0.1	08/02/1999	กพร	SM 2540
TCLP Metals Extraction TCLP-Chromium, ICP	Leached 0.206		mg/L	0.040	07/28/1999 07/30/1999	tpl kdw	SW 1311 SW 6010B
Chromium, ICP Chromium, Hexavalent	2,090 <10		mg/kg dw mg/kg dw	2.1	08/02/1959 08/C2/1959	jtt kaf	SW 60108 SWII 3060

Test's merica

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<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-squeous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Xg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
1	: Percent, To convert ppm to %, divide the result by 10,000.
	To convert & to ppm, multiply the result by 10,000.
	to convert & to ppin, martifully the resolute by 10,000.
ICP ·	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Method Refere	ences
(1)	Methods 1030 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
(2)	ASTM "American Society for Testing Materials"
(3)	Methods 100 through 499: See "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1981.
(4)	See "Standard Methods for the Examination of Water and Nastewater", 17th Ed. APHA, 1969.
(5)	Methods 500 through 625: See "Quidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
(6)	Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
(7)	See "Mathods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.
(8)	See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
(9)	Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
(10)	This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

850 W. BARTLETT RD./ BARTLETT, IL 60103 / 630-289-3100 / FAX: 630-289-5445 / 800-378-5700

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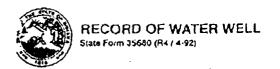
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402 W.Washington BI, Rm. W264
Indianapolis, IN 46204
Indianapolis, IN 46204

RECORD OF WATER WELL



Mail complete record within 30 days to: INDIANA DEPARTMENT OF NATURAL RESOURCES Division of Water 402 W. Washington St. Rm. W264 Indianapolis, IN 46204 (317) 232-4160

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CALUMET

37 N

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Driving directions to the well location (include county road names, number, subdivision to number with consideration to intersecting road and trip origination). There is space for a nap on reverse side.

TWTER STATE 90 W TO 56912 N TO 312 E TO INDUSTRIAL Huy (USIZ) TO 9W 6499 INDUSTRIAL HUY. ERS-2 TO HERE TO OWNER - CONTRACTOR --ame of well owner Telephone number ddress (number and street city, state, ZIP code) 6499 INDUTREAL 76406 Telephone number ame of drilling contractor redmun enoriquist TOP FLIGHT ENUXEENT (NOS) Idress (number and street, city, state, ZIP code) DARCEFUL SERVICES 219-257-8696 3505 U Hame Surte 101 46545 MESHAWALER License number Date of completion 1728 12/14/99 WELL LOG MACK CLARK CONSTRUCTION DETAILS ie of well: From Υo FORMATIONS: Type of material ☐ Irrigation THome ☐ industry ☐ Test (leeb (feet) Other (specify: Moustre well 3 Public supply Stock ethod of drilling] Rotary ☐ Jet ☐ Bucket rig A Other HSA C Rev. retary J Cable tool using length Diameter Material 2 inches 304 SS xeen length Diameter Material ₹ inches yeen slot size Total cepts of well Water quality (clear, cloudy, odor, etc.) opth of pump setting pe of pump Shallow-well jet Cher (specify):] Submersible Deep-well jet WELL CAPACITY TEST eck one Test rate ☐ Air] Bailing Pumping wdown Static level (depth of water) / . 8 WELL ABANDONMENT GROUTING INFORMATION Sealing metorial Oopth filled sinatem tuc Depth of grout Method of Installs Number of bags tion used thad of installation | Number of bags used (Additional space for well log on reverse side) Signature of owner or authorized representative Xeby swear or affirm, under the parallies perjury that the information submitted ewith is to the best of my knowledge and left the extractor and complete. 12/26/99



Mail complete record within 30 days to: INDIANA DEPARTMENT OF NATURAL RESOURCES Division of Water 402 W.Washington St., Rm, W264 Indianapolis, IN 46204 (317) 232-4160

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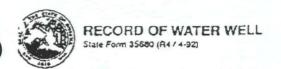
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INDIANA DEPARTIZENT DE NATURAL RESOURCES

Dincion al Wasler

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Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

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Mail complote record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rn, W254
Indianapolis, IN 46204
(317) 232-4160

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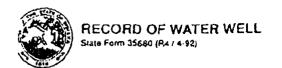
Mail complete record within 30 days to: INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
402 W.Washington St., Rm. W264
Indianapolis, IN 46204
(317) 232-4160

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Division of Water
402 W. Washington St., Rm., W264
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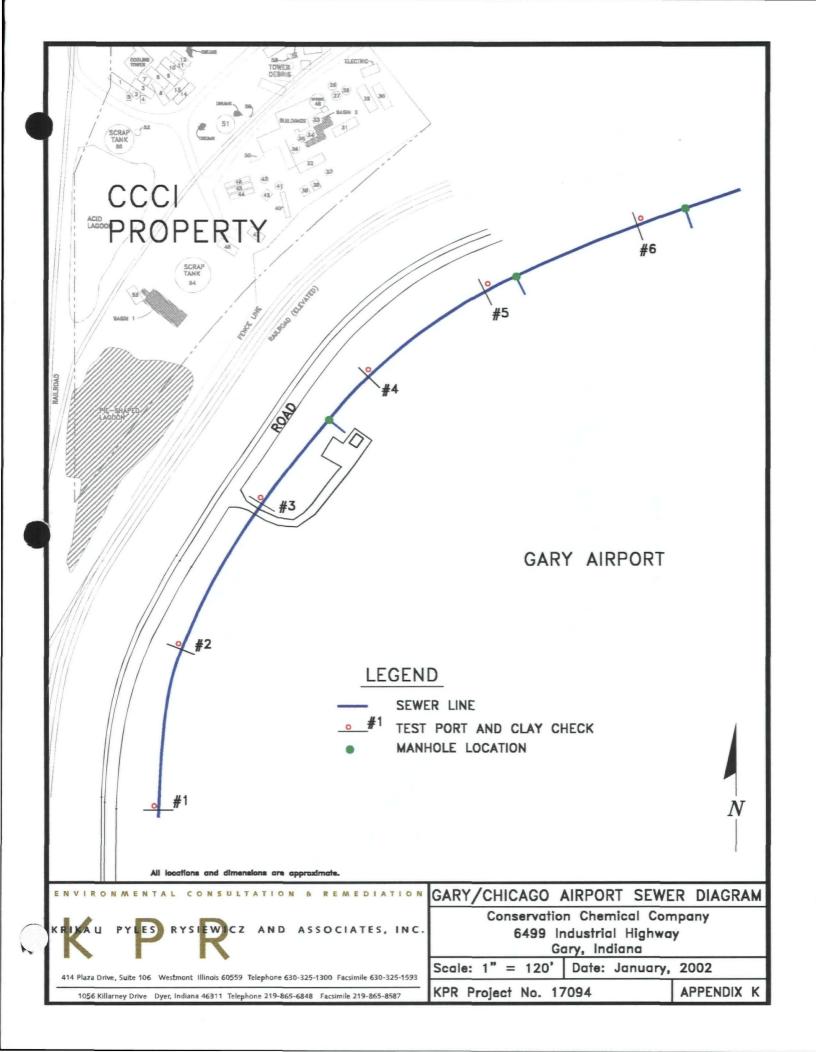
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Indianapolis, IN 46204
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(317) 232-4160

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of pump								
Submersible	Deep-well jet	Other (specify):						
		CITY TEST						-
cone	a. HELL CAP	Test rate		-				
	DiA D	10001010					-	
Bailing	Pumping	gpin	hrs.				.	
lowa		Static level	_					
			,					
	feet	(depth of water))/A loci				1	
GROUTING	INFORMATION	SE WELL ABAND	ONMENT					
material ·	Depth of grout	Scaling material	epth filled ;;					
	From to	Vocate Grant F	100 C 70 3				1	
of installation		Method of Installa N	umber of begs					
		Tick and	sod	(Additional space for	or wall be an a	waren eidal		
V Eweat At affin	m, under the penalties	Signature of owner or aut			or wound on re	The state of the s	Date	
gury that the i	nformation submitted	-	Ette			1		100
ith is to the best of my knowledge and true, accurate and complote.						Ì	12/26/	77



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region V

IN THE MATTER OF:)	·
CONSERVATION CHEMICAL CO.)	
OF ILLINOIS, INC.,)	Docket No. V-W-98-C-497
GARY, INDÍANA)	

CERTIFICATION OF ENGINEER REGARDING AMENDED AOC

We do, hereby, certify that the plans and specifications for installation of the culvert required by the Amended Order in the above-captioned case were prepared in accordance with all applicable FAA and Gary/Chicago Authority requirements for construction on airport facilities. We further certify that the completion of the work and installation of the culvert system were also completed in accordance with the aforementioned requirements.

Dated: 12/15/0/

Signed:

No. 19600067

STATE OF

WOLAND

STORY

STORY

STATE OF

WOLAND

STATE OF



Photo 1 - View of site looking north prior to any of KPR's remedial activities.



Photo 2 - View of site looking west prior to any remedial activities.



Photo 3 - View of site looking southeast in July of 1999.



Photo 4 - Basin 1 during initial stages of site activities.



Photo 5 - Demolition of wooden cooling tower. Or phaned drums in foreground.



Photo 6 - Demolition and shearing of Tank No. 56.



Photo 7 - Cutting of metal from former cracking tower.



Photo 8 - Demolition of building on-site.



Photo 9 - Hazcat sampling of aboveground orphaned drums.



Photo 10 - Initial sampling of pie-shaped lagoon.



Photo 11- Sampling of potential ACM.



Photo 12 - Restricted area around Tank No. 14 because of ACM coating.



Photo 13 - Interior cleaning of Tank No. 40.



Photo 14 - Shearing of cleaned tanks.

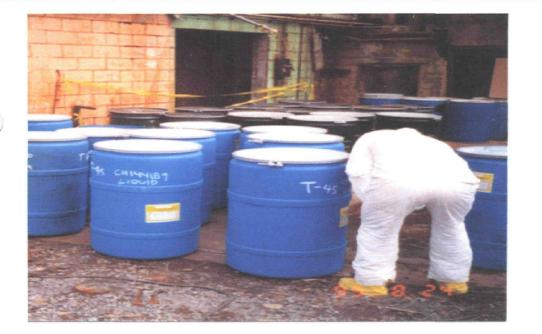


Photo 15 - Labeling of drummed hazardous waste materials from tanks.



Photo 16 - Typical test pit trench with no subsurface impediments.



Photo 17 - Cleaned tanks staged for shearing. (Note base of Tank No. 56 at right.)



Photo 18 - Lowering of a vertical acid tank.



Photo 19 - Backfilling of Basin 2.



Photo 20 - Pressure grouting for closure of monitoring well.



Photo 21 - Labpack of hazardous chemicals.



Photo 22 - Excavation of soils from Tank No. 51 area.



Photo 23 - Excavation of buried drums near former wooden cooling tower.



Photo 24 - Excavated drum debris staged in non-hazardous (front) and hazardous (back) piles.



Photo 25 - Loading hazardous drum debris for off-site disposal.

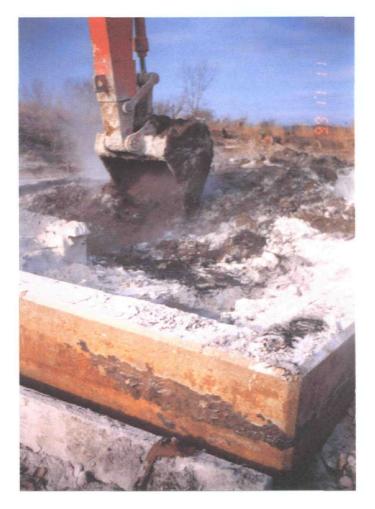


Photo 26 - Stabilizing of Basin 1 materials with cement kiln dust.

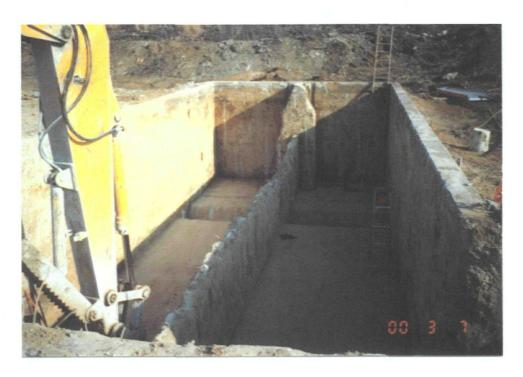


Photo 27 - Basin 1 after cleaning.



Photo 28 - View of Basin 1 after backfilling.



Photo 29 - View of sludge in off-site lagoon prior to stabilization.



Photo 30 - Stabilized material from pie-shaped lagoon.



Photo 32 - View of site looking northeast in March, 2000.



Photo 33 - View of stone lined bottom and packed side slopes of off-site lagoon after all stabilized material had been removed.



July 20, 1999

Mr. David Pyles
Krikau Pyles Rysiewicz and Associates, Inc.
414 Plaza Drive, Suite 106
Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Lagoon Sludge Materials Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the lagoon sludge materials from the CCCI project, which were prepared and analyzed by Test America laboratory of Bartlett, Illinois was reviewed per Level II requirements. The analyses included USEPA SW-846 for Toxicity Characteristic Leaching Procedures by Method 1311 for RCRA metals by Series 6000/7000 and Polychlorinated Biphenyls (PCBs) by Method 8082.

The data package received contained analytical results for 20 samples and a Level II Quality Control (QC) Report.

The data was evaluated using the information obtained in the QC report regarding the following parameters: holding times, continuing calibration, blanks, system monitoring compounds (surrogates), matrix spikes/matrix spike duplicates, and laboratory control samples.

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical method.

The samples were extracted and analyzed within the sample method holding times. The continuing calibration verification is within the percent recovery requirements. The blank analysis report showed analytical results less than detectable limits. The blank surrogate recovery is within the acceptable recovery limits. The laboratory control standard sample with its associated surrogates was with in the acceptable recovery limits.

The matrix spike (MS) and matrix spike duplicate (MSD) showed acceptable recoveries for all analytes except for chromium (ICP) and PCBs which were diluted out. The relative percent difference between the MS/MSD should be less than 20 percent and the MS/MSD falls within the acceptance criteria for those analytes recovered.

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In reviewing the analytical results for individual samples there were several that the PCB analysis were found to have system monitoring compounds that were not within the acceptance criteria. Recoveries were below acceptable limits (primarily due to surrogates being diluted out). These samples identified by laboratory number were as follows:

532900	532901	532902	532903	532904
532905	532906	532907	532908	532909
532910	532911	532918		

In these cases, the associated positive sample results and detection limits/non-detects should be evaluated as estimated.

Additionally, individual sample results indicated elevated reporting limits due to matrix interferences for the following specific analytical parameters and samples:

Barium:	532900	532901	532904	532906
Jurium.				
	532907	532911	532913	532914
	532915	532916	532917	
Arsenic:	532907	532908		
Cadmium:	532912	532913		

In these cases, the associated positive sample results and detection limits/non-detects should be evaluated as estimated.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC. (Formerly QST Environmental)

Lana M. Smith

Sr. Project Scientist

of Arlus



March 10, 2000

Mr. David Pyles Krikau Pyles Rysiewicz and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Off-Site Lagoon Samples Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the off-site lagoon samples from the CCCI project, which were prepared and analyzed by Test America laboratory of Bartlett, Illinois was reviewed per Level II requirements. The analyses included USEPA SW-846 for chromium by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICAP) Method 6010B and Toxicity Characteristic Leaching Procedures (TCLP) Method 1311; hexavalent chromium by Method 3060; and total solids by Method 2540.

The data package received contained analytical results for 3 samples and a Level II Quality Control (QC) Report. The samples are listed below.

CCCI/LS/Off-Site Closure/5-1 CCCI/LS/Off-Site Closure/5-1D CCCI/LS/Off-Site Closure/6-1

The data was evaluated using the information obtained in the QC report regarding the following parameters: holding times, continuing calibration, blanks, matrix spikes/matrix spike duplicates, duplicates, and laboratory control samples.

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical methods with the following notes.

The samples were extracted and analyzed within the specific analytical methods holding times.

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The continuing calibration verification (CCV) appears within the percent recovery/percent difference requirements for the analytes.

The blank analysis report showed analytical results less than detectable limits. The laboratory control standard samples were within acceptable recovery limits.

The duplicate analysis results for total solids were within the acceptance criteria of <20% relative percent difference (RPD).

The matrix spike (MS) and matrix spike duplicate (MSD) had acceptable percent recoveries. No qualifying action or additional comments are noted for the PCBs based on the MS/MSD data alone.

The matrix spike (MS) and matrix spike duplicate (MSD) showed acceptable recoveries for all analytes. Additionally the relative percent difference (RPD) between the MS/MSDs reported fell within the acceptance criteria of less than 20%. No qualifying action or comments are noted based on the MS/MSD data

Although validation guidelines do not provide qualification of data based on field duplicates the field duplicates were reviewed per the following criteria. The field duplicate pair was evaluated using a 20% RPD for sample values greater than five (5) times the reporting limit and a plus or minus two (2) times the reporting limit control when one or both sample results in the pair were less than five (5) times the reporting limit. Field duplicate pair evaluation of the samples CCCI/LS/Off-Site Closure/5-1 and CCCI/LS/Off-Site Closure/5-1D for analysis performed were within these review criteria.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Lana M. Smith

Sr. Project Scientist

May 10, 2000

Mr. David Pyles Krikau Pyles Rysiewicz and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Off-Site Closure and Acid Lagoon Samples Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the off-site closure and acid lagoon samples from the CCCI project, which were prepared and analyzed by Test America of Bartlett, Illinois were reviewed per Level II requirements. The analyses included USEPA SW-846 for chromium by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICAP) Method 6010B and Toxicity Characteristic Leaching Procedures (TCLP) Method 1311; hexavalent chromium by Method 3060; and total solids by Method 2540.

The data package received contained analytical results for 8 samples and a Level II Quality Control (QC) Report. The samples are listed below.

CCCI/LS/Acid Lagoon/9-1

CCCI/LS/Acid Lagoon/10-1

CCCI/LS/Acid Lagoon/11-1

CCCI/LS/Acid Lagoon/12-1

CCCI/LS/Acid Lagoon/10-1D

CCCI/LS/Off-Site Closure/7-1

. CCCI/LS/Off-Site Closure/7-1D

CCCI/LS/Off-Site Closure/8-1

The data was evaluated using the information obtained in the QC report regarding the following parameters: chain of custody, holding times, continuing calibration, blanks, matrix spikes/matrix spike duplicates, duplicates, and laboratory control samples.

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical methods with the following notes.

Chain of Custody (COC) documentation for the off-site closure samples recorded by the laboratory showed an arrival temperature of 18°C for the samples. The laboratory noted that the samples arrived with no ice. Soil samples are to be preserved by ice to 4°C. No qualifying action

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or additional comments are noted based on this information. No COC documentation was provided for the acid lagoon samples in the QC report.

The samples were extracted and analyzed within the specific analytical methods holding times.

The continuing calibration verification (CCV) appears within the percent recovery/percent difference requirements for the analytes.

The blank analysis report showed analytical results less than detectable limits. The laboratory control standard samples were within acceptable recovery limits.

The duplicate analysis results for total solids were within the acceptance criteria of <20% relative percent difference (RPD).

The matrix spike (MS) and matrix spike duplicate (MSD) results for the acid lagoon samples showed acceptable recoveries for the TCLP chromium ICAP analysis. Additionally the relative percent difference (RPD) between the MS/MSD reported fell within the acceptance criteria of less than 20%. No MS/MSDs information was provided for the off-site closure samples in the QC report therefore it cannot be verified that the QC was performed at the required frequency for the analysis.

Although validation guidelines do not provide qualification of data based on field duplicates the field duplicates were reviewed per the following criteria. The field duplicate pairs were evaluated using a 20% RPD for sample values greater than five (5) times the reporting limit and a plus or minus two (2) times the reporting limit when one or both sample results in the pair were less than five (5) times the reporting limit. Field duplicate pair evaluation of the samples CCCI/LS/Off-Site Closure/7-1 and CCCI/LS/Off-Site Closure/7-1D for analysis performed were within this review criteria with the exception of hexavalent chromium that exceeded the criteria. Field duplicate pair evaluation of the samples CCCI/LS/Acid Lagoon/10-1 and CCCI/LS/Acid Lagoon/10-1D for analysis performed were within this review criteria with the exception of hexavalent chromium and TCLP ICAP chromium that exceeded the criteria. These differences in the RPDs may be due to the non-homogeneous nature of the soil samples. Further evaluation of field duplicate RPD should be based upon project specific quality assurance requirements.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Lana M. Smith

Sr. Project Scientist

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May 10, 2000

Mr. David Pyles Krikau Pyles Rysiewicz and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Pie Lagoon Closure and Pie Shape Closure Samples Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the pie lagoon closure and pie shape closure samples from the CCCI project, which were prepared and analyzed by Test America of Bartlett, Illinois were reviewed per Level II requirements. The analyses included USEPA SW-846 for chromium by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICAP) Method 6010B and Toxicity Characteristic Leaching Procedures (TCLP) Method 1311; hexavalent chromium by Method 3060; and total solids by Method 2540.

The data package received contained analytical results for 8 samples and a Level II Quality Control (QC) Report. The samples are listed below.

CCCI/LS/Pie·Lagoon Closure/13-1	CCCI/LS/Pie Shape Closure/13-2
CCCI/LS/Pie Lagoon Closure/14-1	CCCI/LS/Pie Shape Closure/14-2
CCCI/LS/Pie Lagoon Closure/15-1	CCCI/LS/Pie Shape Closure/15-2
CCCI/LS/Pie Lagoon Closure/16-1	CCCI/LS/Pie Shape Closure/16-2
CCCI/LS/Pie Lagoon Closure/17-1	CCCI/LS/Pie Shape Closure/17-2
CCCI/LS/Pie Lagoon Closure/17-1D	CCCI/LS/Pie Shape Closure/17-2D
CCCI/LS/Pie Lagoon Closure/18-1	
CCCI/LS/Pie Lagoon Closure/19-1	
CCCI/LS/Pie Lagoon Closure/20-1	
CCCI/LS/Pie Lagoon Closure/21-1	

The data was evaluated using the information obtained in the QC report regarding the following parameters: chain of custody, holding times, continuing calibration, blanks, matrix spikes/matrix spike duplicates, duplicates, and laboratory control samples.

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CCCI/LS/Pie Lagoon Closure/22-1

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical methods with the following notes.

Chain of Custody (COC) documentation for the pie lagoon closure and pie shape closure samples recorded by the laboratory showed an arrival temperature of 15°C and 22°C for the samples respectively. The laboratory noted that the samples arrived with no ice. Soil samples are to be preserved by ice to 4°C. No qualifying action or additional comments are noted based on this information.

The samples were extracted and analyzed within the specific analytical methods holding times.

The continuing calibration verification (CCV) was provided for the TCLP ICAP chromium and appears to be within the percent recovery/percent difference requirements for the analysis. The CCV information for the other analyses was not provided and therefore can not be verified.

The blank analysis report showed analytical results less than detectable limits. The laboratory control standard samples were within acceptable recovery limits.

The duplicate analysis results for total solids was not provided in the QC report and therefore can not be verified to be within the acceptance criteria of <20% relative percent difference (RPD) for the analysis.

The matrix spike (MS) and matrix spike duplicate (MSD) results for the pie shaped closure samples showed acceptable recoveries for the TCLP chromium ICAP analysis. However, no duplicate spike information was received. No MS/MSDs information was provided for the pie lagoon closure samples in the QC report therefore it cannot be verified that the QC was performed at the required frequency for the analysis.

Although validation guidelines do not provide qualification of data based on field duplicates the field duplicates were reviewed per the following criteria. The field duplicate pairs were evaluated using a 20% RPD for sample values greater than five (5) times the reporting limit and a plus or minus two (2) times the reporting limit when one or both sample results in the pair were less than five (5) times the reporting limit. Field duplicate pair evaluation of the samples CCCI/LS/Pie Lagoon/17-1 and CCCI/LS/Pie Lagoon Closure/17-1D for analysis performed were within this review criteria with the exception of TCLP ICAP chromium that exceeded the criteria. The TCLP ICAP chromium had a RPD of approximately 48%. This large RPD may be due to the non-homogeneous nature of the soil samples. Field duplicate pair evaluation of the samples CCCI/LS/Pie Shaped Closure/17-2 and CCCI/LS/Pie Shaped Closure/17-2D for analysis performed were within this review criteria. Further evaluation of field duplicate RPD should be based upon project specific quality assurance requirements.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Lana M. Smith

Sr. Project Scientist



July 1, 2000

Mr. David Pyles Krikau Pyles Rysiewicz and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Pie Lagoon Closure and LS Closure Samples Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the pie lagoon closure and LS closure samples from the CCCI project, which were prepared and analyzed by Test America of Bartlett, Illinois were reviewed per Level II requirements. The analyses included USEPA SW-846 for chromium by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICAP) Method 6010B and Toxicity Characteristic Leaching Procedures (TCLP) Method 1311; hexavalent chromium by Method 3060; and total solids by Method 2540.

The data package received contained analytical results for three sets of data with two samples in each set and a respective Level II Quality Control (QC) Report, with the exception of one set. The set containing the samples, CCCI/LS/Pie Lagoon/15-3/Closure and CCCI/LS/Pie Lagoon/15-3D/Closure did not have a QC Report provided. The other two sets containing QC Reports were reviewed and the samples are listed below.

CCCI/Pie Lagoon 16-4/Closure CCCI/Pie Lagoon 16-4 Dup/Closure

CCCI/LS/14-4/Closure CCCI/LS/14-4 Dup/ Closure

The data was evaluated using the information obtained in the QC report regarding the following parameters: chain of custody, holding times, continuing calibration, blanks, matrix spikes/matrix spike duplicates, duplicates, and laboratory control samples.

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical methods with the following notes.

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Chain of Custody (COC) documentation for the pie lagoon closure and LS closure samples recorded by the laboratory showed an arrival temperature of room temperature and 17°C for the samples respectively. The laboratory noted that the samples arrived with no ice. Soil samples are to be preserved by ice to 4°C. No qualifying action or additional comments are noted based on this information.

The samples were extracted and analyzed within the specific analytical methods holding times.

The continuing calibration verification (CCV) was provided and appears to be within the percent recovery/percent difference requirements for the analysis.

The blank analysis report showed analytical results less than the detectable limits. The QC report contained no information on the blanks for the pie lagoon samples total solids analysis. The laboratory control standard samples were within acceptable recovery limits.

The duplicate analysis results for total solids was not provided in the QC report for the pie lagoon closure samples and therefore verification of the proper frequency or acceptance criteria of <20% relative percent difference (RPD) for the analysis could not be determined. The LS closure samples duplicate analysis results for total solids were within the acceptance criteria of <20% relative percent difference (RPD).

The matrix spike (MS) and matrix spike duplicate (MSD) results for the samples showed acceptable recoveries for the TCLP chromium ICAP analysis. Additionally the relative percent difference (RPD) between the MS/MSD reported fell within the acceptance criteria of less than 20%. The matrix spike (MS) and matrix spike duplicate (MSD) did not show acceptable percent recoveries for hexavalent chromium. The hexavalent chromium MS percent recovery was 59.5%, which is not within the acceptance criteria of 75-125%. The RPD between the hexavalent chromium MS/MSD was 24.8%, which is above the acceptance criteria of 20%. No qualifying action or additional comments are noted for the samples based on the MS/MSD data alone.

Although validation guidelines do not provide qualification of data based on field duplicates the field duplicates were reviewed per the following criteria. The field duplicate pairs were evaluated using a 20% RPD for sample values greater than five (5) times the reporting limit and a plus or minus two (2) times the reporting limit when one or both sample results in the pair were less than five (5) times the reporting limit. Field duplicate pair evaluation of the samples CCCI/Pie Lagoon 16-4/Closure and CCCI/Pie Lagoon16-4 Dup/Closure for analysis performed were within this review criteria with the exception of hexavalent chromium that exceeded the criteria. The sample differences being greater than plus or minus two (2) times the reporting limit may be due to the non-homogeneous nature of the soil samples. Field duplicate pair evaluation of the samples CCCI/LS/14-4/Closure and CCCI/LS/14-4 Dup/Closure for analysis performed were within this review criteria. Further evaluation of field duplicate RPD should be based upon project specific quality assurance requirements.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Lana M. Smith

Sr. Project Scientist



August 2, 2000

Mr. David Pyles Krikau Pyles Rysiewicz and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Pie Lagoon Closure Samples (Cells 13 and 17) Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the pie shaped lagoon closure samples (Cells 13 and 17) from the CCCI project, which were prepared and analyzed by Test America of Bartlett, Illinois were reviewed per Level II requirements. The analyses included USEPA SW-846 for chromium by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP) Method 6010B and Toxicity Characteristic Leaching Procedures (TCLP) Method 1311; hexavalent chromium by Method 3060; total solids by Method 2540 and pH by Method 9045.

The data package received contained analytical results for two sets of data with two samples in the first set and three samples in the second set. Each set contained a Level II Quality Control (QC) Report. The samples are listed below.

Set 1

Set 2

CCCI/Pie Lagoon Closure/13-6 CCCI/Pie Lagoon Closure/13-6D CCCI/Pie Lagoon/13-4/Closure CCCI/Pie Lagoon/17-4/Closure CCCI/Pie Lagoon/17-4D/Closure

The data was evaluated using the information obtained in the QC report regarding the following parameters: chain of custody, holding times, continuing calibration, blanks, matrix spikes/matrix spike duplicates, duplicates, and laboratory control samples.

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical methods with the following notes.

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Chain of Custody (COC) documentation for Data Set 1 and Data Set 2 samples recorded by the laboratory showed an arrival temperature of 9°C and 12°C for the sets respectively. The laboratory noted that all the samples arrived with ice. Soil samples are to be preserved by ice to 4°C. No qualifying action or additional comments are noted based on this information.

The samples for both data sets were extracted and analyzed within the specific analytical methods holding times.

The continuing calibration verification (CCV) for Data Set 1 was provided for the TCLP ICP chromium and hexavalent chromium and both appear to be within the percent recovery/percent difference requirements. The continuing calibration verification (CCV) for Data Set 2 was provided for the hexavalent chromium and appears to be within the percent recovery/percent difference requirements for the analysis. The CCV information for the TCLP ICP chromium analysis for Data Set 2 was not provided and therefore can not be verified.

The blank analysis report for both data sets showed analytical results less than the detectable limits. The laboratory control standard samples for both data sets were within acceptable recovery limits.

The duplicate analysis results for total solids and pH were within the acceptance criteria of <20% relative percent difference (RPD) for both data sets.

Data Set 1 matrix spike (MS) and matrix spike duplicate (MSD) results for the samples showed acceptable recoveries for the TCLP chromium ICP analysis. Additionally the relative percent difference (RPD) between the MS/MSD reported fell within the acceptance criteria of less than 20. No MS/MSD information was provided for the hexavalent chromium analysis in the QC report therefore it could not be verified that the QC was performed at the required frequency for that analysis. No qualifying action or additional comments are noted for the samples based on the MS/MSD data alone.

Data Set 2 matrix spike (MS) and matrix spike duplicate (MSD) results did not show acceptable percent recoveries for hexavalent chromium. The hexavalent chromium MS/MSD percent recoveries were 5.1% and 7.0% respectively, which are not within the acceptance criteria of 75-125%. The RPD between the hexavalent chromium MS/MSD was 26.7%, which is above the acceptance criteria of 20%. No MS/MSD information was provided for the TCLP chromium ICP analysis in the QC report therefore it could not be verified that the QC was performed at the required frequency for that analysis. No qualifying action or additional comments are noted for the samples based on the MS/MSD data alone.

Although validation guidelines do not provide qualification of data based on field duplicates the field duplicates were reviewed per the following criteria. The field duplicate pairs were evaluated using a 20% RPD for sample values greater than five (5) times the reporting limit and a plus or minus two (2) times the reporting limit when one or both sample results in the pair were less than five (5) times the reporting limit. Field duplicate pair evaluation of the samples CCCI/Pie Lagoon

Closure/13-6 and CCCI/Pie Lagoon Closure/13-6D from Data Set1 for the analyses performed were within this review criteria. Field duplicate pair evaluation of the samples CCCI/Pie Lagoon/17-4/Closure and CCCI/Pie Lagoon/17-4D/Closure from Data Set 2 for analyses performed were also within this review criteria. Further evaluation of field duplicate RPD should be based upon project specific quality assurance requirements.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Lana M. Smith

Sr. Project Scientist

Lana Smith/cus



January 10, 2000

Mr. David Pyles Krikau Pyles Rysiewicz and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Test Pit Samples Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the test pit samples from the CCCI project, which were prepared and analyzed by Test America laboratory of Bartlett, Illinois was reviewed per Level II requirements. The analyses included USEPA SW-846 for Toxicity Characteristic Leaching Procedures (TCLP) Method 1311 for Semi-Volatile Organic Compounds (SVOCs) by Method 8270B, Volatile Organic Compounds (VOCs) by Method 8260B, and RCRA metals by Series 6000/7000. In addition, analysis included Polychlorinated Biphenyls (PCBs) by Method 8082, total solids by Method 2540 and total cyanide by Method 9012A.

The data package received contained analytical results for 14 samples and a Level II Quality Control (QC) Report. The samples are listed below.

CCCI/TP-2-1 (6-7')	CCCI/TP-5-1 (7')	CCCI/TP-6-1 (7')
CCCI/TP-7-1 (7')	CCCI/TP-8-1 (7')	CCCI/TP-9-1 (7')
CCCI/TP-10-1 (2-3')	CCCI/TP-12-1 (3-4')	CCCI/TP-TB-1
CCCI/TP-13-1 (7')	CCCI/TP-11-1 (4-6')	CCCI/TP-13-1 (7')Dup
CCCI/TP-14-1 (3-4')	CCCI/TP-14-2 (7')	, , .

The data was evaluated using the information obtained in the QC report regarding the following parameters: holding times, continuing calibration, blanks, surrogates, matrix spikes/matrix spike duplicates, and laboratory control samples.

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical methods with the following notes.

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The samples were extracted and analyzed within the specific analytical methods holding times.

The continuing calibration verification (CCV) appears within the percent recovery/percent difference requirements for the analytes.

The blank analysis report showed analytical results less than detectable limits. The laboratory control standard samples were within acceptable recovery limits.

The duplicate analysis results for total solids were within the acceptance criteria of <20% relative percent difference (RPD).

The matrix spike (MS) and matrix spike duplicate (MSD) did not show acceptable percent recoveries for TCLP cadmium and PCBs. The TCLP cadmium MS/MSD percent recoveries were 62.0% and 58.0% respectively, which are not within the acceptance criteria of 75-125%. In the case of the TCLP cadmium the associated positive sample results and detection limits/non-detects should be evaluated or considered as estimated values. The PCBs MS/MSD percent recoveries were 129.5% and 127.4% respectively, which are not within the acceptance criteria of 75-125%. No qualifying action or additional comments are noted for the PCBs based on the MS/MSD data alone.

PCB surrogate recoveries for samples CCCI/TP-12-1 (3-4'), CCCI/TP-14-1 (3-4'), and CCCI/TP-14-2 (7') were not within acceptable recovery limits. The recovery limits for the surrogates are as follows: tetrachloroxylene (TCX), 59-118%; decachlorobiphenyl (DCB), 55-132%. The surrogates for these three samples were diluted out, therefore there were no percent recoveries reported. In this case the associated positive sample results and detection limits/non-detects should be evaluated or considered as estimated values.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Lana M. Smith

Sr. Project Scientist



August 30, 1999

Mr. David Pyles Krikau Pyles Rysiewicz and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559

Review of the Conservation Chemical Company of Illinois (CCCI) Cooling Tower Samples Analytical Data Reported by Test America, Inc.

Dear Mr. Pyles:

As requested, analytical data for the cooling tower samples from the CCCI project, which were prepared and analyzed by Test America laboratory of Bartlett, Illinois was reviewed per Level II requirements. The analyses included USEPA SW-846 for chromium by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICAP) Method 6010B and Toxicity Characteristic Leaching Procedures (TCLP) Method 1311; hexavalent chromium by Method 3060; and total solids by Method 2540.

The data package received contained analytical results for 12 samples and a Level II Quality Control (QC) Report. The samples are listed below.

CCCI/CT-S-1-1	CCCI/CT-S-1-2	CCCI/CT-S-2-1
CCCI/CT-S-2-2	CCCI/CT-S-3-1	CCCI/CT-S-3-2
CCCI/CT-S-4-1	CCCI/CT-S-4-2	CCCI/CT-S-5-1
CCCI/CT-S-5-2	CCCI/VT-S-6-1	CCCI/PIT-S-7-1

The data was evaluated using the information obtained in the QC report regarding the following parameters: holding times, continuing calibration, blanks, matrix spikes/matrix spike duplicates, and laboratory control samples.

RESULTS

Based upon the information provided, the data reviewed meets the quality assurance/quality control requirements of the parameters reviewed for the analytical methods with the following notes.

The samples were extracted and analyzed within the specific analytical methods holding times.

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The continuing calibration verification (CCV) appears within the percent recovery/percent difference requirements for all analytes.

The blank analysis report showed analytical results less than detectable limits. The laboratory control standard sample was within acceptable recovery limits.

The duplicate analysis results for total solids were within the acceptance criteria of <20% relative percent difference (RPD).

The matrix spike (MS) and matrix spike duplicate (MSD) did not show acceptable percent recoveries for chromium by ICAP analysis. The chromium MS/MSD percent recoveries were 38.0% and 32.0% respectively, which were below the acceptance criteria of 75%. The MD/MSD RPD that were reported were within the acceptance criteria of less than 20 percent. No qualifying action or additional comments are noted based on the MS/MSD data since the matrix spike samples may not be from this job.

If you have any questions or require further information in regard to this data review, please do not hesitate to contact me.

Sincerely yours,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Lana M. Smith
Sr. Project Scientist

July 7, 1999

PROGRESS REPORT FOR JUNE 1999

Mr. Steve Faryan, On Site Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

Re: Conservation Chemical Company of Illinois (Site), Gary Indiana Site Remediation, Monthly Progress Report Progress Report No. 1

Dear Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the progress report for the month ending June of 1999. Krikau, Pyles, Rysiewicz and Associates, Inc. (KPR), the 6500 Industrial Highway Groups contractor, was granted access across the Western Scrap property that was needed to access the site on June 3, 1999. At this time, KPR was able to begin the process of soliciting final bids from its subcontractors. Prior to this time, KPR could not have its subcontractors visit the site in order for them to prepare their final bids. On July 1, 1999, the United States Environmental Protection Agency relinquished control of the site to KPR.

During the month of June 1999, KPR completed the following tasks.

- 1.) Contracts were issued by KPR to the following subcontractors:
 - A.) Test America, the laboratory that will do all of the required analysis work on samples taken at the site with the exception of those for asbestos.
 - B.) QST, Inc., this firm will perform all of the required QA/QC work.
 - C.) Clean Harbors, the firm that will be doing the required HAZCATTING.
 - D.) Allied Waste Landfill in Newton County Indiana, the disposal site for all construction and demolition debris that will be removed from the site.
 - E.) Cole Engineers was awarded the contract to survey the site to locate the property lines.
 - F.) A&R Security was awarded the contract to provide site security for the duration of the cleanup.

2.) Mobilization Work:

The office and guard trailers the US EPA had rented to use during the removal of the PCB Pile were contracted in KPR's name and moved to a new location on site. Utilities, such as electrical power, sanitation facility, drinking water and etc. were completed. The existing decon pad was upgraded and repaired. Temporary fencing was installed along the north edge of the site to limit temporary access to the site.

- 3.) Work completed in accordance with approved work plan:
 - A.) A site security firm was retained and was on site on July 1, 1999.
 - B.) All three (3) acid lagoons were sampled and samples analyzed. The analyses performed was TCLP Metals, Total Chrome, Hexavalent Chrome and PCB's. Attached are photographs showing the sampling being done.
 - C.) Tanks and Pits were sampled and inspected. Forty eight (48) of the fifty eight tanks were sampled along with all pits.
 - D.) The asbestos survey was completed.
 - E.) The site was video taped to provide a visual image of its condition before the cleanup began.
 - F.) The survey of the site to determine its property lines was completed.
 - G.) Work began to remove and dispose of the construction debris that is on site.
- 4.) Requested proposals from subcontractors:
 - A.) Proposals were solicited from fencing contractors.
 - B.) Proposals were solicited from scrap steel cutters and hauling contractors.

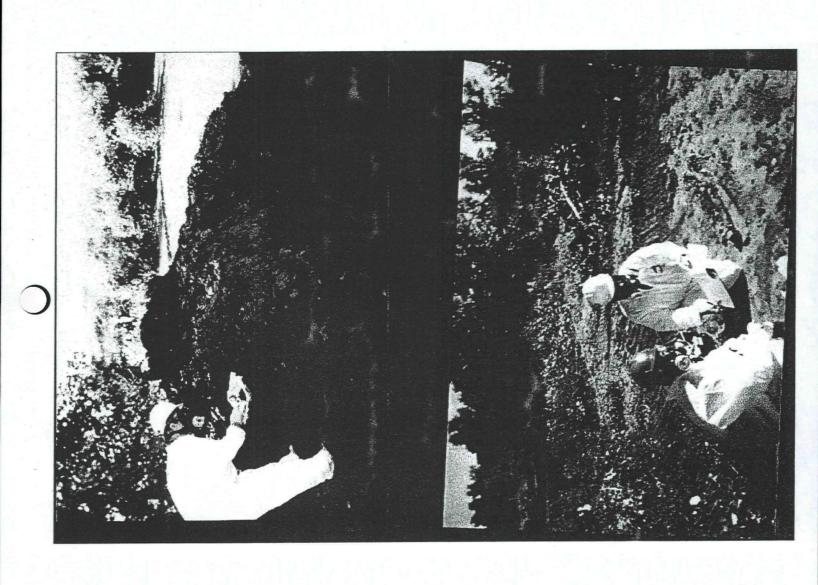
Should you have any questions, please do not hesitate calling

Very Truly Yours

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau P.E.

FGK/dr





August 5, 1999

PROGRESS REPORT FOR JULY 1999

Mr. Steven Faryan, OSC United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

Re: Administrative Consent Order (ACO) in the matter of: Conservation Chemical Company of Illinois, Inc. (Site), Gary, Indiana Site Remediation, Monthly Progress Report Progress Report No.2

Dear Mr. Faryan:

In accordance with the above referenced Administrative Consent Order (ACO) for the above referenced site, the following is the progress report for the month of July 1999.

During the month of July 1999, the following was accomplished.

1.) TANKS AND PITS:

All previously emptied tanks, existing tanks with liquids and sludges in them and pits were sampled except for tank #11. The results of the analyses of the samples taken are pending.

2.) LIQUIDS, SLUDGES AND SOLIDS IN TANKS:

There are a number of tanks and pits that were not emptied and cleaned by International Technology approximately eight years ago. In 1993, US EPA's TAT group, Ecology and Environment Inc., sampled these tanks and pits. In planning this project, Krikau, Pyles, Rysiewicz and Associates, Inc. (KPR), relied on this sampling. Based on the sampling done to date, the liquids, sludges and solids in some of tanks are different then they were in 1993. This indicates that a great deal of "midnight dumping" has occurred on the site in the last few years.

3.) ASBESTOS SAMPLING RESULTS:

Materials found on tanks, structures, cooling towers, and oil cracking tower that contained suspected asbestos containing materials (ACM's) were sampled. Twelve tanks and the oil cracking tower contained ACM along with a small cooling tower and a wall in the building that is made of transite. Analyses of the samples taken show that a greater amount of asbestos is on site than anticipated. A minor amount of asbestos was found in the dome of the oil cracking tower. Since the oil cracking tower is the first scrap to be taken to Bethlehem Steel, this asbestos was removed and stored in an enclosed lock trailer on site until full scale asbestos removal takes place.

4.) COOLING TOWER SUMP:

The large water cooling tower on site was demolished. Beneath this cooling tower is a concrete sump that collected the cooled water. This sump is now filled with sludge. Chromates were found in the sludge in this sump. Samples were taken of this sludge for laboratory analyses to determine if hexavalent chrome, in regulated concentration is present or hazardous levels of chrome above TCLP levels exist in the sump sludge.

5.) INTERNAL LINED TANKS:

Twenty-nine (29) tanks are lined with some form of rubber lining. This was determined during the sampling of the contents of these tanks. Lined tanks cannot be sold as scrap steel. No scrap dealer will take them. Also, the majority of these lined tanks have asbestos mastic on their outside surface. This item was discussed with the 6500 Industrial Highway Technical Meeting held on July 20, 1999. The decision was made by the technical committee to dispose of these tanks at an acceptable landfill.

6.) BURIED DRUMS:

After the cooling tower was demolished, a buried drum grave yard was found. The drums are packed up against the cooling tower sump. The disposition of these drums needs to be determined.

7.) TRASH REMOVAL:

To date, a total of 140 tons of construction/demolition debris has been removed from the site and disposed.

8.) SCRAP STEEL:

Brandenberg mobilized on site and began cutting clean tanks. As of July 30, 1999, only seven tons of scrap were disposed of at Bethlehem Steel.

9.) HOT ZONE FENCING:

Area's of the site was divided into cold and hot zones. The degree of hazard was used to determine if a particular area is a hot zone. All hot zones were fenced to prevent

unauthorized entry.

10.) SITE EMERGENCY EXIT:

Permission was received from SES to use the old site access road across their property as a site emergency exit. This road was grubbed to provide use.

11.) DRUM SAMPLING:

Drum sampling began during the latter part of July. 64 drums were sampled in July.

12.) HEALTH AND SAFETY:

A health and safety audit was performed by Network Safety, Inc. on July 12, 1999. A copy of this audit is available in the site office trailer.

13.) FIRE AND RESCUE REVIEW:

On July 15, 1999, Chief Hines of the Gary Fire Department was on site to become familiar with the condition of the site in case of an emergency. A site map and tank inventory sheet was provided to Chief Hines.

14.) SITE GRUBBING:

During July 1999, site grubbing was accomplished. Trees, bushes and weeds were removed so that access and visual viewing of the site surface could be done. During this grubbing, additional drums were found.

14.) RESULTS OF SAMPLING ANALYSES:

A complete list of the analyses of materials sampled at the site is available for your review in the construction trailer on site.

Should you have any questions, please do not hesitate to ask them at our Monday morning meetings.

Very Truly Yours Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau P.E.

cc: 6500 Industrial Highway Group FGK/dr

August 31, 1999

PROGRESS REPORT FOR AUGUST 1999

Mr. Steven Faryan, OSC United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Ulinois 60604

Re: Administrative Consent Order (ACO) in the matter of:

Conservation Chemical Company of Illinois, Inc. (Site), Gary, Indiana

Site Remediation, Monthly Progress Report

Progress Report No.3

Dear Mr. Faryan:

In accordance with the above referenced Administrative Consent Order (ACO) for the above referenced site, the following is the Progress Report for the month of August 1999.

During the month of August 1999, the following was accomplished.

1.) ASBESTOS:

All asbestos, except for the asbestos on tanks T-26, T-27, T-28 and T-33 has been removed, ecliceted, bagged and stored in the locked trailer that is on site. As soon as these vertical tanks T-26, T-27 and T-28 are laid on their sides, which is scheduled for September 2 and 3, 1999, the asbestos coatings on these tanks will be removed. It is anticipated that this work will be completed the week of September 6, 1999. This will complete all asbestos work on the site.

2.) ABOVE GROUND DRUMS:

All above ground 55 gallon druins have been sampled. The results of this sampling has been received by KPR and is presently being evaluated so that disposal of these druins can be accomplished. A total of 165 druins were sampled.

3.) TANKS AND BASINS:

All tanks, with the exception of T-51, T-52 and T-55, have been accessed and cleaned (The residual left in the uncleaned tanks are awaiting disposal approval). The residuals from the cleaned tanks have been removed off-site by Clean Harbors via bulk loading (90,143 gallons) and, where necessary, using drums (30 drums). A total of 76 additional drums and three (3) cubic yard boxes are waiting removal by Clean Harbors on September 1, 1999.

A new basin (B-3) was discovered on site. Samples of the liquid and sludge found in B-3 have been sent to Test America Laboratory for analysis.

414 Plaza Drive, Suite 106 - Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

1056 Kiliarney Drive Dyer, Indiana 46311 Telephone 219-865-6848 Facsionle 219-865-8587

The contents in B-2 were determined to be uncontaminated, so authorization was received from US EPA to fill with broken/crushed brick and concrete from the on-site demolition work.

A total of 29 cleaned steel tanks, 15 of which are rubber lined, need to be cut and sent to Bethlehem Steel or, if lined, to Newton County landfill. This work is tentatively scheduled for the week of September 20, 1999.

4.) TRASH AND CONSTRUCTION DEBRIS:

During the month of August, over 25 tons of trash and debris was removed from the site. This brings the total of trash and construction debris removed from the site to over 165 tons.

5.) INTERNAL LINED TANKS:

Over 80 tons of lined tanks have been cleaned, cut and disposed of at Allied Waste during the month of August 1999.

6.) UNLINED TANKS:

Over 290 tons of unlined tanks and steel tower debris has been cleaned, cut and disposed of as scrap steel at the Bethlehem Steel Plant during the month of August 1999.

7.) LAB PACKS:

All obsolete laboratory chemicals, reagents and samples were collected in the field and placed in lab pack containers. A total of 22 lab packs were disposed of during the month of August 1999.

8.) COOLING TOWER SUMP:

Sampling and analyses of the material found in the cooling tower sump shows that this material does not contain unacceptable levels of chrome and will be left on site.

9.) HEALTH AND SAFETY:

No health and safety issues occurred during the month of August 1999.

Should you have any questions, please do not hesitate to ask them at our Monday morning progress meetings.

Very Truly Yours

Krikau, Pyles, Rysjewicz and Associates, Inc.

Fred G. Krikau P.E.

cc: 6500 Industrial Highway Group FGK/dr

October 4, 1999

PROGRESS REPORT FOR SEPTEMBER 1999

Mr. Steve Faryan, OSC United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

Re: Administrative Consent Order (ACO) in the matter of: Conservation Chemical Company of Illinois, Inc.(site), Gary Indiana Site Remediation, Monthly Progress Report, Progress Report 4.

Dear Mr. Faryan:

During the month of September 1999, the following was accomplished:

1.) TANKS AND PITS:

With the exception of Tank 51, all tanks that had liquids and sludges in them at the start of this remediation have been emptied, the liquids and sludges disposed of and tanks T-26, T27 and T28 laid down on the site ready for final cleaning. Basin 2 was backfilled with crushed stone

2.) LIQUIDS, SLUDGES AND SOLIDS FROM TANKS:

During the month of September 1999, the following liquids, sludges and solid waste was removed from the site and disposed.

- A.) Approximately 385 cubic yards of non-hazardous waste from T-55.
- B.) 100 cubic yards of concrete debris.
- C.) 165 cubic yards of construction debris.

- D.) 76 drums, three cubic yard boxes and 25 tons of Hazardous Waste.
- E.) 14 tons of railroad ties.
- F.) 22 tons of rubber lined steel from tanks.
- G.) 125 tons of demolition debris.

3.) ASBESTOS:

During September 1999, the asbestos removal was completed at the site. A total of 275 bags of asbestos containing material was disposed of off-site

4.) BUILDING DEMOLITION:

During September 1999, the large building that was on site was demolished and disposed.

5.) HEALTH & SAFETY:

No health and safety issues occurred during September 1999.

If you have any questions, please do no hesitate to raise them at our Monday morning project meetings.

Very Truly Yours Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau P.E.

FGK/dr

November 5, 1999

PROGRESS REPORT FOR OCTOBER 1999

Mr. Steve Faryan, OSC United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

Re: Administrative Consent Order (ACO) in the matter of: Conservation Chemical Company of Illinois, Inc.(site), Gary Indiana Site Remediation, Monthly Progress Report, Progress Report 5.

Dear Mr. Faryan:

During the month of October 1999, the following was accomplished:

1.) TANKS AND PITS:

Not counting Tank 51 that will be addressed later in this report, all other tanks were cleaned, cut up and either sold as scrap steel or, in the case of rubber lined tanks, disposed of at Allied Waste. A total of approximately 170 tons of rubber lined scrap steel was sent to Allied Waste. In addition, approximately 15 tons of brick lining material was also disposed of as a non-hazardous special waste at Allied Waste.

2.) TANK 51:

Tank 51 contained both liquid and solid hazardous waste. This tank was emptied of both the liquids and solids. These liquid and solid hazardous wastes were disposed of as a hazardous waste. Tank 51 was then cleaned, cut and disposed.

3.) SURFACE DRUMS:

A total of 165 surface drums were emptied, the contents re packed in roll off boxes ready for disposal. The drum carcases were cleaned and disposed of as scrap steel.

4.) LAGOON TREATABILITY STUDY:

Hexavalent chrome was found in the pie shaped lagoon. A treatability study was performed using different types of alkaline materials attempting to convert the hexavalent chrome into its trivalent form. This treatability study confirmed that this conversion would take place. Attached to this report are the supporting laboratory results.

5.) HEALTH & SAFETY:

No health and safety issues occurred during October 1999.

6.) WOOD CHIPPING:

A lot of trees, bushes and etc. were knocked down during the tank and drum removal. They were scattered throughout the site. A wood chipper was brought on site and the trees and bushes were chipped.

7.) US EPA WORK ON THE BOTTOMS OF TANKS 54 & 56:

Oil was found in the soils under tanks 54 and 56. During the month of October, a US EPA contractor removed and/or stabilized these oil contaminated soils.

8.) GROUNDWATER WELLS:

The groundwater wells found on site were sampled by US EPA during the month of October 1999. These groundwater wells will now be removed in accordance with IDEM requirements.

9.) RAILROAD TRACKS:

The railroad track that ran through the middle of the CCCI property was partially removed during the month of October. The steel track was recycled and the railroad ties removed and are ready for disposal.

10.) EXTENT OF CONTAMINATION STUDY:

During the month of October 1999, the extent of contamination study on the eastern one third of the site begun. Rather then using the soil boring technique in performing this study, test pits were dug. More than twenty-five attempts were made to dig test pits in those areas of the eastern on third of the site to a depth of five to six feet in those areas that were not covered with concrete (ie: the building foundation). Only ten of the twenty-five test pits could be excavated to the required depth. The entire eastern one third of the CCCI site contains the remnants of Berry Oil Company. Numerous subsurface concrete and steel foundations were encountered including a subsurface maze of underground piping. Some of piping encountered were 12 inches to 18 inches in diameter. It was apparent that the majority of this underground piping had not been emptied of oil when

Berry Oil ceased operation. This piping has now deteriorated and is leaking oil. Also, a great number of pipes exit the site going onto the EJ&E Railroad property. Where these pipes end up is unknown. However, what is known is that these pipes contain a lot of oil. They are leaking and the subsurface soils are saturated with the leaking oil. Based on this finding, US EPA agreed that additional test pitting would not be required and there would be no need to perform the geo-physical study.

11.) AIRPORT ENVIRONMENTAL COMMITTEE TOUR OF CCCI SITE:

On October 27, 1999, the environmental committee of the Gary Airport toured the CCCI site. This same committee toured the site in June of this year. The committee was "shocked" to see how much work has been completed in just four months. They could not believe that the site is now a flat, vacant parcel of land.

12.) OCTOBER 29, 1999 FIRE OF SURROUNDING PROPERTIES:

On October 29, 1999, the vacant properties to the west and north of the site caught on fire. Flames from this fire were estimated to reach heights of 25 to 30 feet. Dense black smoke was generated by this fire. The smoke indicated that some of the oil soaked property north and west of the CCCI site also burned. The Gary Fire Department was granted access to the CCCI site to fight this fire. No damage was done to the CCCI site or the equipment located on the site.

If you have any questions, please do no hesitate to raise them at our Monday morning project meetings.

Very Truly Yours Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau P.E.

FGK/dr

December 13, 1999

PROGRESS REPORT FOR NOVEMBER 1999

Mr. Steve Faryan, OSC United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

Re: Administrative Consent Order (ACO) in the matter of:

Conservation Chemical Company of Illinois, Inc.(site), Gary Indiana

Site Remediation, Monthly Progress Report,

Progress Report 6.

Dear Mr. Faryan:

In accordance with the above referenced Administrative Consent Order (ACO) for the above referenced site, the following is the Progress Report for the month of November 1999.

During the month of November 1999, the following was accomplished.

1.) TEST PITS:

Test pits were dug along the common property line of the site and the EJ&E Railroad. Numerous underground pipes were encountered. These pipes, full of oil, and foundations were left over from the time that Berry Oil Company occupied the site. Because of the underground pipes and foundations, only nine (9) test pits could be dug. A soil sample was taken from each test pit and submitted for laboratory analyses.

2.) RAILROAD TRACK REMOVAL:

The railroad track that ran through the middle of the site was removed. The steel railroad tracks will be sold as scrap. The railroad ties were removed and stock piled. Some, but

not all, of these railroad ties were disposed of at the Allied Waste landfill. The remainder will be sent to Allied in early December.

3.) WOOD CHIPPING:

During the remediation done on site to-date, a substantial quantity of up-routed trees and bushes were accumulated. All of these trees and bushes were chipped.

4.) BASIN ONE LIQUIDS:

The liquids found in Basin 1 were removed and disposed of at the CID disposal site.

5.) BASIN ONE SLUDGES

The sludge material found in Basin 1 was stabilized using Omni Materials "Buffington" kiln dust. Samples of the stabilized material were taken and submitted to a laboratory for the analyses needed for disposal. Based on the analyses, the search for an appropriate disposal site is being undertaken.

6.) DRUM CONTENTS DISPOSAL:

The two (2) roll-off boxes that contained hazcatted drums contents were removed from the site and disposed of at the Clean Harbors incinerator in Kimball, Nebraska.

7.) RINSEATE DISPOSAL:

Rinseate liquids from Tanks 26, 27 and 28 that were contained in 55 gallons drums were disposed of at Clean Harbors in Chicago Illinois.

8.) TEST TRENCHING, TANK 55 AND COOLING TOWER:

Test trenching was done alongside Tank 55 and in the area adjacent to the old cooling tower sump to determine the extent of the buried drums encountered.

9.) ADJACENT SITE FIRE:

A major fire occurred on the properties adjacent to the CCCI site due to the dry weather conditions. It was necessary to grant the Gary Fire Department access to the CCCI site to reach part of the fire. After the initial fire was extinguished and since the area west of the CCCI site is a "bog", a continual bog fire flared up almost every day for the next week.

10.) MONITORING WELL CLOSURES:

A contractor has been retained to close the tem (10) monitoring wells identified on-site. This work has been scheduled for the week of December 13, 1999.

11.) SITE SURVEY:

A property line survey along the lagoons is scheduled to be performed the week of December 6, 1999. This survey is necessary in order to relocate off-site lagoon material, after stabilization, on-site.

Should you have any questions, please do not hesitate to ask them at our progress meeting.

Very Truly Yours Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

cc: 6500 Industrial Highway Group FGK/dr

PROGRESS REPORT FOR DECEMBER 1999

Mr. Steve Faryan, OSC
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: Administrative Consent Order (ACO) in the matter of:
Conservation Chemical Company of Illinois, Inc.(site), Gary Indiana
Site Remediation, Monthly Progress Report, Progress Report Number 7.

Dear Mr. Faryan:

In accordance with the above referenced Administrative Consent Order (ACO) for the above referenced site, the following is the Progress Report for the month of December 1999.

1.) RAILROAD TRACK REMOVAL:

The railroad ties remaining after the steel tracks were removed from the onsite railroad spur were disposed of at the Allied Waste landfill in Newton County, Indiana.

2.) SITE GRADING:

The site has been cleared of all surficial tanks, railroad tracks and building structures except for basin No. 1 and the lagoons. Other than the work associated with these two areas, the site grading activities have been completed.

3.) BURIED DRUMS NEXT TO TANK 55 AND FORMER COOLING TOWER:

The crushed buried drums found next to Tank 55 were excavated and stockpiled. Samples

of the contents from these drums and drums located near the former cooling tower were taken and submitted for laboratory analysis for disposal parameters. Based on the confirmatory analytical results, these drums were determined to be acceptable for disposal as a nonhazardous waste at CID. This removal activity is scheduled for the week of January 10,2000.

4.) SITE SURVEY:

A survey was performed to establish and demarcate the exact property lines near the lagoons. The property line location was required to delineate off site lagoon materials and to facilitate their relocation to the CCCI property.

5.) MONITORING WELL CLOSURES:

The Ten (10) monitoring wells which were identified on site were removed in accordance with Indiana regulations. Monitoring well closure records were prepared and filed with the State of Indiana.

6.) CONTAINMENT BARRIER:

As you know, test pit excavations were performed along the east property line (adjacent to the EJ&E property) and numerous underground pipes and subsurface foundations were encountered. These pipes and subsurface foundations are remnants from the previous occupant, Berry Oil. Due to the presence of these subsurface structures, the installation of a containment barrier along the property line is not feasible. Moreover, as previously presented, the spacial environmental impact of the petroleum problem extends well beyond the footprint of the containment barrier and, therefore its installation would do little to address and control the petroleum migration to the airport property. As a result, the US EPA has developed a different strategy to control the oil discharge. This new method negates the need for the containment barrier and provides for interception of the petroleum before it reaches the ditch. To help pay for this new method, the 6500 Industrial Highway Group has agreed to donate funds to this project. Mr. Jim Harrington, Chairman of the 6500 Industrial Highway Group PRP committee has been in contact with US EPA's attorney to finalize the donation and its effect upon the ACO.

7.) BASIN 1 SLUDGES:

The waste materials contained within basin 1 were determined, during the assessment phase of the project, to contain high levels of volatile organic compounds. The physical characteristics required the removal and disposal of the water phase and the stabilization of the underlying sludges. The stabilization activities entailed the addition and periodic mixing of lime kiln dust. The material required an additive mixture of ten percent.

During the stabilization activities, the structural configuration of basin 1 was also determined. KPR learned that the basin contained a variety of subsurface baffles to create a weir - type structure measuring approximately twelve feet in total depth, four feet greater than what was previously measured. In addition, two smaller basins which were connected in series, were also encountered at the inlet end of the basin.

As a result, a greater volume of sludge required stabilization. The stabilized materials were allowed to cure and were subsequently sampled and tested for disposal parameters. KPR has submitted these results to The Environmental Quality Company for disposal acceptance. KPR anticipates the disposal of sludge materials will commence in January, 2000. The remaining task for the completion of the remediation of basin 1 will be to decontaminate the structure.

Should you have any questions, please do not hesitate to ask them at our progress meeting scheduled for January 11, 1999.

Very Truly Yours

Fred G. Krikau P.E.

FGK/ks

February 1, 2000 PROGRESS REPORT FOR JANUARY 2000

Mr. Steven Faryan, OSC
United States Protection Agency
Region 5
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: Administrative Consent Order (ACO) in the matter of:
Conservation Chemical Company of Illinois (Site), Gary Indiana
Site Remediation, Monthly Progress Report, Progress Report number 8.

Dear Mr. Faryan:

In accordance with the above referenced ACO for the above referenced site, the following is the Progress Report for the month of January 2000.

1.) BURIED DRUMS NEXT TO COOLING TOWER AND TANK 55.

The buried drums found next to the cooling tower and Tank 55 were loaded and disposed of as a non-hazardous waster at the CID Landfill in Chicago Illinois. The weight disposed of totaled 67.7 tons.

2.) STABILIZATION OF BASIN ONE SLUDGES:

The sludges found in Basin One were stabilized with kiln dust. Even after stabilization, the sludges were found to be a hazardous waste. Arrangements were made to dispose of the stabilized sludges at the EQ facility located in Bellville Michigan. EQ has the ability to treat the stabilized material prior to land disposal. Initially 230 ions of stabilized

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material was treated but was found to be very difficult for EQ to treat because of high concentrations of chloro-benzene. The next four loads of the stabilized sludges sent to EQ, which was in transit when EQ determined that their treatment process would not work, were rejected and returned to the CCCI site. This material was returned to Basin 1 for additional treatment with kiln dust. If further addition of kiln dust does not allow EQ's treatment process to work, the sludges will need to be incinerated at a much high cost. EQ will resample the additionaly treated material at the site on February 3, 2000.

3.) TEST PITS, EASTERN AND THIRD OF SITE:

In lou of soil borings and a ground penetration study, fourteen test pits were dug. Thirteen of these test pits were dug in the eastern third of the site and one test pit was dug under tank 51 because the contents of this tank had leaked through the bottom of the tank. Attached is a map of the site showing the locations of the test pits dug. Soil samples were taken from each test pit and analyzed. The results of the soil analyses showed that at Test Pit 5, lead exceeded TCLP limits and Test Pits 12 and 14 exceeded TCLP limits for chlorinated solvents. Based on the analytical results, an additional soil sample was taken at Test Pit 5 to verify the level of lead at that location. Additionally, soil from Test Pit 12 and from under tank T-51 (Test Pit 14) was excavated, staged on plastic and sampled for disposal parameters.

4.) OLD TRUCK AND CAR TIRES:

Some additional old tires found on site were cut and disposed of along with the initial Basin I solids sent to EQ.

5.) UNDERGROUND PIPING LEAVING SITE ONTO EJ&E RAILROAD PROPERTY:

In preparation for designing the Containment Barrier (barrier) along the common property' line with the EJ&E Railroad, test excavations were made to determine where the pipes go and how far. Most of the pipes are cut off right at the property line and are leaking oil. The others are connected to what appears to be a "header" pipe that runs parallel to the property about one foot onto the railroad property. Where this header pipe goes is unknown because it crosses onto Western Scrap property. The design of the Containment Barrier will now proceed.

6.) BURIED DRUMS NORTH EAST OF COOLING TOWER:

A large quantity of buried drums were found in the area north east of the old cooling tower. These drums were excavated and and staged on site. Their disposition is pending.

7.) SLUDGE LAGOONS:

Work will begin to stabilize and move off-site lagoon material on-site the first week in February. Work will begin on the off-site lagoon, followed by the Acid Lagoon and the Pie Shaped Lagoon.

Should you have any questions concerning this report or the activities on site, please do not hesitate to ask them at our progress meetings.

Very Truly Yours

Fred G. Krikau P.E.

FGK/mk

March 24, 2000

PROGRESS REPORT FOR FEBRUARY, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.:17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - February 2000 Progress Report No. 9

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending February, 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of February, 2000, KPR completed the following activities:

Off-Site Lagoon Stabilization

During the month of February, KPR conducted stabilization activities on the materials within the off-site lagoon. The scope of these activities was performed as per the approved work plan. However, the volume of material encountered was substantially greater than earlier studies described. KPR encountered no noteworthy difficulties with the management of the additional volume of material. As determined by the treatability study, these materials were stabilized with the addition of lime kiln dust at an add ratio of 10%. These materials were stabilized in-place using hydraulic backhoes. As of the end of the month of February, over one-half of the off-site lagoon materials were stabilized and sampled for closure validation analysis. These materials will be considered acceptable if their hexavalent chrome content is less than 200 mg/kg and the T.C.L.P. chrome content is less than 5.0 mg/L. KPR anticipates the completion the off-site lagoon stabilization activities to be completed by mid-March. Upon its completion, KPR will initiate stabilization activities on the acid lagoon. Upon receipt of acceptable analysis of the closure validation samples, KPR will relocate these stabilized materials to an on-site area.

Basin 1 Stabilization & Disposal Activities

As described in KPR's January, 2000 Progress Report, the materials from within Basin 1 were rejected by the disposal facility and required additional on-site treatment. KPR continued its effort to stabilize the material with the addition of more lime kiln dust and additional mixing. Subsequently, KPR requested EQ, the disposal facility, to re-sample and analyze the materials to determine if they were acceptable for disposal. The results of the re-sampling indicated that the materials would be acceptable and the shipments of these wastes were again initiated on February 24, 2000. During the month of February, 2000 approximately 120 tons of Basin 1 waste were sent for disposal at EQ. KPR anticipates that the complete removal of this waste will be completed before March 20, 2000. KPR will then clean the basin structure and, as directed, backfill the basin with clean granular materials.

T-51 Contaminated Soils

Tank No. 51 (T-51) contained a variety of liquid and sludge wastes which were properly managed and disposed of by KPR. The tank structure was decontaminated, sheared and disposed as a recycled metal. Upon the dismantlement of this structure, stained soils were observed beneath a portion of the tank. KPR was directed to excavate this stained area. The contaminated soils generated by this corrective action activity were determined to be hazardous. KPR prepared the requisite profiles, loaded, transported, and disposed of these materials at EQ. The resulting excavation was approved for backfilling and was filled with clean imported granular materials. The volume of contaminated soil removed and disposed from this area totaled more than 151 tons. This task is now complete.

Laboratory Chemicals

During the requested test pit excavation activities, KPR uncarthed 11 laboratory reagent containers. These reagents were intact and some of their labels were legible. These reagents were secured, hazcatted, properly containerized for shipment and disposed of at Clean Harbors, Inc. This task was completed on February 22, 2000 by Clean Harbors Lab Pack Services Group.

Safety Audit Results

On February 14, 2000, an independent health and safety audit was conducted by Network Safety Consultants, Inc. The scope of the audit was to check KPR's work activities with respect to the site health and safety plan. This audit was performed by Mr. Louis Paz, who found no significant non-compliance issues. As a result of the audit, Network Safety offered three (3) suggestions; including improvement of the existing demarcation of the exclusion zone, update the exclusion zone map that is posted in the trailer, and remove a one gallon fuel can that did not have a spark arresting vent. These suggestions were addressed and implemented immediately after the audit. No outstanding issues remain.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Isld Y. Kubaups

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

President

April 4, 2000

PROGRESS REPORT FOR MARCH, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.:17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - March 2000 Progress Report No.10

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending March 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of March 2000, KPR completed the following activities:

Lagoon Stabilization Activities

During the month of March, KPR continued to conduct stabilization activities on the materials within the lagoons. The scope of these activities was performed as per the approved work plan. As determined by the treatability study, these materials were stabilized with the addition of lime kiln dust at a ratio of 10%. These materials were stabilized in-place using hydraulic backhoes. The stabilization of the off-site lagoon materials was completed on March 13, 2000. The closure verification analysis of the off-site lagoon materials demonstrated that the acceptance criteria was successfully obtained. Upon the completion of the stabilization effort within the off-site lagoon, KPR's stabilization activities focused upon the stabilization of the acid lagoon materials. KPR initiated stabilization activities on the acid lagoon on March 13, 2000. KPR found the volume and moisture consistence to be less than the characteristics in the off-site lagoon. This enabled KPR to complete the stabilization of this material by March 20, 2000. KPR collected closure validation samples and as of the preparation of this progress report has received a verbal report from the laboratory that the closure samples were compliant with the acceptance criteria.

On March 20, 2000, KPR initiated the site grading work to provide for the relocation of off-site stabilized soils to an on-site area. The placement area, herein to be referred to as the T-56 area, was graded level after all residual debris was removed. Clean imported clay fill was then placed to construct a earthen berm around its perimeter. As of March 31, 2000, KPR had placed approximately 6,600 cubic yards of material from the off-site lagoon into the T-56 placement area. KPR estimates that approximately 650 cubic yards remain to be relocated from the off-site lagoon and approximately 2,500 cubic yards from the acid lagoon. The completion of the placement of these materials should be completed by late April 2000.

Stabilization of the materials in the pie-shaped lagoon materials was initiated on March 20, 2000 and has progressed well. As of March 31, 2000, approximately 65% of the lagoon materials had been stabilized. KPR anticipates completing the stabilization activities around the end of April.

Basin 1 Stabilization & Disposal Activities

During the month of March 2000 approximately 250 tons of remaining Basin I waste were sent for disposal at EQ in Belleville, Michigan. Upon completing the removal of the Basin I waste, KPR cleaned the basin structure and, as directed, backfill the basin with clean granular materials. The cleaning residuals were sent out with the last load of material to EQ for disposal. During the removal of the residual materials and the cleaning process, 680 gallons of water was pumped and sent to Clean Harbors, Inc. in Chicago, Illinois for treatment and disposal. This task is complete and no further actions are required in the basin area.

U.S. EPA's Geophysical Survey

On March 13, 2000, U.S. EPA performed a geophysical survey of the T-56 placement area, the former T-51 tank area, and within an area near Basin 1. The results of the survey identified several anomalies in these three (3) areas. KPR excavated the T-56 area to assess the anomalies and found several sections of buried pipe and several scrap drums. The scrap drums were removed and the area was cleared for the placement of soil materials. At EPA's request, KPR preformed an exploratory test excavation at the anomaly identified near the former T-51 tank. This anomaly was marked and determined to extend beneath the service road that is located north of the decontamination pad. The excavation encountered numerous drums in the marked area and found the marking to be accurate. Although some drums were removed, the majority of the drums including those under the road were not excavated since damage to the service road would compromise on-going site activities. The area was backfilled and marked for subsequent drum removal. The area near Basin 1 was not disturbed as it too was located in an area of active remediation. This area will be explored when site work will not be encumbered. No other anomalies were discovered.

Internal Safety Audit Results

KPR conducted an internal site health and safety audit. The scope of the audit was to assure that site work activities were consistent with the health and safety plan. This audit found no significant compliance issues. KPR conducted a brief safety meeting with site personnel to review specific components of the safety plan and to keep personnel attuned with protocols. No outstanding issues or concerns were identified.

Other Miscellaneous Activities

Other non-task specific site activities included the removal of accumulated scrap steel materials. KPR loaded, transported and recycled approximately 23 tons of metal at Bethlehem Steel Corporation's Gary Plant. (Note that the reconciliation of the actual weight tickets are pending.) In addition, KPR had accumulated approximately 45 discarded tires through general site excavation activities. These tires were sheared and disposed of with the Basin 1 material at EQ's, Michigan Facility. During the month of March, KPR performed minor grading repairs to the service road leading into the site. These repairs entailed the placement of imported limestone to level-off the potholes. KPR also secured the cinder block building next to the entry gate. This building had several large holes which could be used for unauthorized access to the service road. These holes were secured using small sections of chain-link fence that were fastened to the exterior wall using self-tapping screws.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

red S. Kukaups

Fred G. Krikau, P.E.

May 2, 2000

PROGRESS REPORT FOR APRIL, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - April 2000 Progress Report No.11

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending April 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of April 2000, KPR completed the following activities:

Lagoon Stabilization Activities

During the month of April, KPR continued to conduct stabilization activities on the materials within the pie-shaped lagoon. The scope of these activities was performed as per the approved work plan. As determined by the treatability study, these materials were stabilized with the addition of lime kiln dust at a ratio of 10%. These materials were stabilized in-place using hydraulic backhoes. The stabilization of the pie-shaped lagoon materials was completed on April 5, 2000. The closure verification analysis of the pie-shaped lagoon materials demonstrated that the acceptance criteria was successfully obtained in the western half, however, samples from the eastern half (5 individual sample areas) exceeded the objective for TCLP chrome of 5 mg/L. Since the moisture content of this material appeared to be less than desirable, clean water was utilized to increase the moisture content and enhance the reagent's chemical reaction. The water additions were performed while remixing this area. The restabilization of

the eastern half of the pie-shaped lagoon was completed on April 26, 2000. KPR collected the requisite closure validation samples, submitted them for TCLP chrome analysis, and is awaiting the analytical results.

Removal of the off-site portion of the western half of the pie-shaped lagoon from along the E, J & E railroad bank was initiated. This material is being placed on the on-site portion of the acid lagoon. Once the grades of this area are acceptable, the area will also be capped with 2 feet of clay.

All material from the off-site lagoon was placed in the T-56 area. Clean imported clay was then placed to a depth of at least 2 feet over and around the staged material. This area was then graded and sloped to allow for drainage of runoff. Clean imported clay was packed on the north, east, and south banks of the former off-site lagoon. The west bank was sloped and graded utilizing existing native materials. Clean imported stone was placed on the bottom of the former off-site lagoon to a depth ranging from 2 - 4 feet to allow for natural drainage. Remediation of this area is now complete.

Removal of the off-site portion of the acid lagoon materials was completed during the month. This material was placed on the portion of the acid lagoon on the property. Placement and grading of clay along the banks of the off-site portion of the acid lagoon was initiated.

U.S. EPA's Geophysical Survey

The area near Basin 1 was explored for subsurface anomalies. Although a few partially disarticulated buried drum pieces were encountered and subsequently removed, the anomalies identified in this area typically were either buried pipes or scrap metal. All previously unexcavated drums in the former T-51 area were excavated and staged for removal. All excavated areas were backfilled and leveled to pre-existing conditions.

Containment Barrier

Discussions continue with the Gary Airport and U.S. EPA concerning the donation of \$125,000.00 to the Gary Airport for the installation of a culvert pipe in their ditch to prevent oil from entering the ditch and then being discharged to the Grand Calumet River. This donation would be in lieu of the requirement to install the containment barrier required by the ACO entered into by the 6500 Industrial Highway Group. A meeting, including attorneys, will be held in the near future with the Gary Airport, U.S. EPA, and the 6500 Industrial Highway Group in an attempt to bring this issue to completion. U.S. EPA and the 6500 Industrial Highway Group have engaged in both technical and legal discussions and are in agreement that the installation of the culvert is appropriate.

Other Miscellaneous Activities

A laboratory bottle containing an unknown chemical and a drum of an unknown liquid which were encountered during the excavation of the off-site lagoon material were containerized and removed off-site for disposal by Clean Harbors, Inc. on April 24, 2000.

During the stabilization of the pie-shaped lagoon, approximately 20 - 30 railroad ties were encountered. These ties are being stockpiled for off-site disposal.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Fred yo Kribay

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

June 1, 2000

PROGRESS REPORT FOR MAY, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - May 2000 Progress Report No.12

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending May 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of May 2000, KPR completed the following activities:

Lagoon Stabilization Activities

The initial stabilization of the pie-shaped lagoon materials was completed on April 5, 2000. The closure verification analysis of the pie-shaped lagoon materials demonstrated that the acceptance criteria was successfully obtained in the western half, however, samples from the eastern half (5 individual sample areas) exceeded the TCLP chrome objective of 5 mg/L. Since the moisture content of this material appeared to be less than desirable, clean water was utilized to increase the moisture content and enhance the reagent's chemical reaction. The water additions were performed while remixing this area. The restabilization of the eastern half of the pie-shaped lagoon was completed on April 26, 2000. KPR collected the requisite closure validation samples and submitted them for TCLP chrome analysis. Unfortunately, all samples, including the duplicate, exceeded the TCLP chrome level of 5 mg/L. Additional lime kiln dust was subsequently introduced into the eastern half and remixed. Upon completion of

mixing in one-fifth of the eastern half (Cell 15), a closure verification sample along with a duplicate was obtained and submitted for TCLP chrome analysis. The results for both samples achieved the objective and, therefore, stabilization of the remaining areas was continued utilizing two excavator backhoes. This iteration of stabilization was completed on May 17, 2000 and closure verification samples were obtained from the remaining areas. However, the analytical results for all remaining areas again exceeded the TCLP chrome objective of 5 mg/L. KPR is investigating the potential for utilizing an alternate stabilizing agent to achieve the desired results.

Removal of the off-site portion of the western half of the pie-shaped lagoon from along the E, J & E railroad bank was completed. This material was placed on the onsite portion of the acid lagoon. This area, along with the T-56 area, were covered with at least 2 feet of clay and 3 inches of clean topsoil. Installation of erosion control on the slopes of each capped area and seeding of both areas was performed.

Buried Drums

The additional excavated buried drum debris which had previously been segregated into non-hazardous and hazardous waste streams and staged on-site were sampled and profiled for disposal. A total of 43.47 tons of non-hazardous debris was removed and disposed of at Waste Management's CID landfill on May 2nd. Three (3) truckloads of hazardous debris were removed from the site and transported for stabilization at Onyx Environmental's Controlled Waste facility in Menomonee Falls, Wisconsin on May 10th. All three (3) loads, however, were rejected at the site due to amendable cyanide concentrations which exceeded permit limits. The loads were returned to the CCCI site on May 11th and the waste stream was reprofiled for disposal at EQ in Bellville, Michigan. The three (3) loads were removed on May 23rd.

Containment Barrier

Discussions continue with the Gary Airport and U.S. EPA concerning the donation of \$125,000.00 to the Gary Airport for the installation of a culvert pipe in their ditch to prevent oil from entering the ditch and then being discharged to the Grand Calumet River. This donation would be in lieu of the requirement to install the containment barrier required by the ACO entered into by the 6500 Industrial Highway Group. A meeting, including attorneys, was held on May 30, 2000 with the Gary Airport, U.S. EPA, and the 6500 Industrial Highway Group in an attempt to bring this issue to completion. As a result of this meeting, the airport tentatively agreed to initiate the engineering activities to design the culvert system.

Other Miscellaneous Activities

A load of scrap steel was removed from the site on May 9th and the appropriate payment amount credited to the PRP Group.

During the stabilization of the pie-shaped lagoon, approximately 20 - 30 railroad ties were encountered. These ties were removed off-site and disposed of at Allied Waste's Newton County Landfill on Thursday, May 18th.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

June 30, 2000

PROGRESS REPORT FOR JUNE, 2000

Mr. Steve Faryan, On Scene Coordinator
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - June 2000 Progress Report No.13

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending June 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of June 2000, KPR completed the following activities:

Lagoon Stabilization Activities

Bench scale tests utilizing fly ash and ferrous sulfate were both performed which indicated that the TCLP chrome objective of 5 mg/L could be achieved. Since the fly ash material is significantly cheaper in cost, it was utilized to mix the remaining non-compliant areas (Cells 13, 14, 16, and 17). Analytical samples from each area were subsequently obtained by both KPR and START which demonstrated compliance in Cells 14, 16, and 17. However, although KPR's sample result for Cell 13 was 4.32 mg/L, START's result for that area was 6.6 mg/L. It was agreed that since the analytical results were so close to each other and to the cleanup objective that the material in Cell 13 would be given additional time to cure and would then be resampled. Subsequent sampling of Cell 13 by KPR and START was performed on June 29, 2000.

Removal of the off-site portions of Cells 15 and 16 of the pie-shaped lagoon from along the E, J & E railroad bank was completed. This material was placed on-site near the former Basin 1 area. This area, along with the on-site portion of the pie-shaped lagoon, will be covered with at least 2 feet of clay and 3 inches of clean topsoil once all of the cells meet the cleanup objectives. Installation of erosion control on the slopes of the capped area and seeding of the areas will also be performed.

KPR has placed crushed limestone aggregate against the E, J & E railroad embankment to secure the site slope against slump and erosion. The material placement was reviewed with an E, J & E structural engineer. KPR has complied with their request to place backfill to previous elevations and provide a secure slope that would not easily erode. The use of the 3 inch stone will meet these objectives.

Containment Barrier

Discussions continue with the Gary Airport and U.S. EPA concerning the donation of \$125,000.00 to the Gary Airport for the installation of a culvert pipe in their ditch to prevent oil from entering the ditch and then being discharged to the Grand Calumet River. This donation would be in lieu of the requirement to install the containment barrier required by the ACO entered into by the 6500 Industrial Highway Group. A meeting was held, including attorneys, on May 30, 2000 with the Gary Airport, U.S. EPA, and the 6500 Industrial Highway Group in an attempt to bring this issue to completion. As a result of this meeting, the airport tentatively agreed to initiate the engineering activities to design the culvert system.

Since then, authorization for the engineering of the culvert pipe by the airport has been initiated. When the engineering is completed, quotations will be obtained to install the culvert. If the price of the engineering and installation does not exceed \$125,000.00, the culvert will be installed. If the cost is more than \$125,000.00, additional discussions with the U.S. EPA and Gary Airport will be necessary.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Fred D. Kukaw

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.



August 2, 2000

PROGRESS REPORT FOR JULY, 2000

Mr. Steve Faryan, On Scene Coordinator
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - July 2000 Progress Report No.14

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending July 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of July 2000, KPR completed the following activities:

Lagoon Stabilization Activities

Resampling of Cell 13 by both KPR and Start was performed on June 29, 2000. The analytical results for both samples, however, exceeded the objective for TCLP chrome. An addition of ferrous sulfate was made to Cell 13 and the area was resampled on July 12, 2000 by KPR and Start. The analytical results for this sampling episode demonstrated compliance with the requisite objectives for TCLP and hexavalent chrome.

Removal of the off-site portions of Cells 15 and 16 of the pie-shaped lagoon from along the E, J & E railroad embankment was completed. This material was placed on-site near the former Basin 1 area. This area, along with the on-site portion of the pie-shaped lagoon, was covered with a minimum of 2 feet of clay and 3 inches of clean topsoil. Erosion control fabric was placed on the exposed side slopes where

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drainage could potentially cause erosion. The entire capped area was seeded with a blend of grass seed. KPR has placed crushed limestone aggregate against the E, J & E railroad embankment to secure the site slope against slump and crosion. KPR has complied with their request to place backfill to previous elevations and to provide a secure slope that would not easily erode. The use of the 3 inch stone has met these objectives. The material placement was subsequently reviewed and approved by an E, J & E structural engineer.

Containment Barrier

Discussions continue with the Gary Airport and U.S. EPA concerning the donation of \$125,000.00 to the Gary Airport for the installation of a culvert pipe in their ditch to prevent oil from entering the ditch and then being discharged to the Grand Calumet River. This donation would be in licu of the requirement to install the containment barrier required by the ACO entered into by the 6500 Industrial Highway Group. A meeting was held, including attorneys, on May 30, 2000 with the Gary Airport, U.S. EPA, and the 6500 Industrial Highway Group in an attempt to bring this issue to completion. As a result of this meeting, the airport tentatively agreed to initiate the engineering activities to design the culvert system.

Since then, authorization for the engineering of the culvert pipe by the airport has been initiated. According to the airport's engineer, a draft design will be issued by mid-August. When the engineering phase is completed, quotations will be obtained to install the culvert. If the price of the engineering and installation does not exceed \$125,000.00, the culvert will be installed. If the cost is more than \$125,000.00, additional discussions with the U.S. EPA and Gary Airport will be necessary.

Demobilization Activities

A sample of the residuals from Tank T-24 (decon tank) was obtained on July 13, 2000 for disposal profiling. Once all equipment was cleaned, the residuals from T-24 and the decon pad sump were containerized in one (1) 55 gallon drum. After obtaining disposal authorization, the drum was removed from the site by Clean Harbors on July 31, 2000. Tank T-24 was subsequently cleaned, crushed, and removed off-site to a metal recycler. The decon pad was decommissioned.

Disconnection of site electrical and telephone utilities was completed on July 31, 2000. Removal of the field office trailer, security guard trailer, and sanitary facilities was completed on July 31, 2000.

Relocation/installation of the property line fence was initiated on July 25, 2000 but is not yet complete.

Security services were discontinued on July 31, 2000 at 4:30 p.m.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

September 6, 2000

PROGRESS REPORT FOR AUGUST, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - August 2000 Progress Report No.15

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending August 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of August 2000, KPR completed the following activities:

Airport's Stormwater Pipe Installation

As described in our previous monthly status reports, a tentative agreement has been reached to install a new stormwater pipe in lieu of the installation of the containment barrier designed with sealed checks to reduce the potential for oil migration within the bedding materials and will serve to convey stormwater past an area where oil seeps currently discharge to open channel flow. KPR has requested New Generation Consulting, the Gary Airport's engineering contractor to initiate design services. On August 23, 2000, an informal meeting was held with Mr. Kenneth Ross, P.E. of New Generation Consulting, KPR and U.S. EPA. KPR was provided a draft copy of the design drawings and construction specifications. KPR has provided a copy of these drawings and specifications to U.S. EPA for review and comment. As of the issuance of this monthly report, the draft review was incomplete. Upon the completion of the review and subsequent revisions, bids will be solicited for its installation. If the price

of the engineering and installation does not exceed \$125,000.00, the culvert will be

Demobilization Activities

Relocation/installation of the property line fence was completed on August 4, 2000. Restricted area warning signs were placed at regular intervals on the outside of the property line fence on August 11, 2000.

installed. If the cost is more than \$125,000.00, additional discussions will be necessary.

The existing front entrance sign was removed on August 15, 2000.

A final site meeting was held on August 23, 2000.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

October 3, 2000

PROGRESS REPORT FOR SEPTEMBER, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - September 2000 Progress Report No.16

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending September 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of September 2000, KPR completed the following activities:

Airport's Stormwater Pipe Installation

As described in our previous monthly status reports, an agreement has been reached to install a new stormwater pipe in lieu of the installation of the containment barrier designed with sealed checks to reduce the potential for oil migration within the bedding materials and will serve to convey stormwater past an area where oil seeps currently discharge to open channel flow. On August 23, 2000, an informal meeting was held with Mr. Kenneth Ross, P.E. of New Generation Consulting, KPR and U.S. EPA. KPR was provided a draft copy of the design drawings and construction specifications. KPR has provided a copy of these drawings and specifications to U.S. EPA for review and comment. KPR received U.S. EPA's comments and conveyed the comments and suggestions to New Generation for incorporation into their design plans and specifications. The final design drawings are expected to be completed the week of October 2, 2000. Upon receipt of these plans, KPR will solicit bids for the

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implementation of the work. Note that KPR and the legal committee representing the 6500 Industrial Highway Group will require a written modification to the approved Work Plan.

KPR has directed New Generation to obtain the necessary permits from the Federal Aviation Administration (FAA). The permit application was filed on September 1, 2000. According to Mr. Ken Ross of New Generation, the permitting process will require approximately six weeks to complete. In conjunction with this permitting effort, KPR has initiated the required security clearance process. KPR has completed the requisite applications and the security background checks are currently pending. As noted before, if the price of the engineering and installation does not exceed \$125,000.00, the culvert will be installed. If the cost is more than \$125,000.00, additional discussions will be necessary.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Tred Y. Kulsavlle

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

November 7, 2000

PROGRESS REPORT FOR OCTOBER, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - October 2000 Progress Report No.17

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending October 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of October 2000, KPR completed the following activities:

Airport's Stormwater Pipe Installation

As described in our previous monthly status reports, an agreement has been reached to install a new stormwater pipe in lieu of the installation of the containment barrier. The new stormwater pipe is designed with sealed checks to reduce the potential for oil migration within the bedding materials and will serve to convey stormwater past an area where oil seeps currently discharge to open channel flow. Note that KPR and the legal committee representing the 6500 Industrial Highway Group will require a written approval of this modification to the Work Plan.

On August 23, 2000, an informal meeting was held with Mr. Kenneth Ross, P.E. of New Generation Consulting, U.S. EPA, and KPR. KPR was provided a draft copy of the design drawings and construction specifications. KPR has provided a copy of these drawings and specifications to U.S. EPA for review and comment. KPR received U.S.

EPA's comments and conveyed the comments and suggestions to New Generation for incorporation into their design plans and specifications as prepared by New Generation. The final design drawings were completed and KPR solicited bids for the implementation of the work. U.S. EPA and KPR has noted that the design as presented by New Generation and as submitted within the bid documents may not be of adequate length as other seeps have discharged oil to the ditch further east. This may require further modifications to the length of the pipe. A meeting to review this is scheduled for November 2, 2000.

KPR has directed New Generation to obtain the necessary permits from the Federal Aviation Administration (FAA). The permit application was filed on September 1, 2000. A copy of FAA's permit approval letter was issued on October 20, 2000. A copy of this letter will be provided under separate transmittal. In conjunction with this permitting effort, KPR has initiated the required security clearance process. KPR has completed the requisite applications and the security background checks are currently pending.

As noted before, if the price of the engineering and installation does not exceed \$125,000.00, the culvert will be installed. If the cost is more than \$125,000.00, additional discussions will be necessary.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Tred M. Kribanles

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

December 12, 2000

PROGRESS REPORT FOR NOVEMBER, 2000

Mr. Steve Faryan, On Scene Coordinator
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - November 2000 Progress Report No.18

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending November 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of November 2000, KPR completed the following activities:

Airport's Stormwater Pipe Installation

As described in our previous monthly status reports, an agreement has been reached to install a new stormwater pipe in lieu of the installation of the containment barrier. The new stormwater pipe is designed with sealed checks to reduce the potential for oil migration within the bedding materials and will serve to convey stormwater past an area where oil seeps currently discharge to open channel flow. KPR and the legal committee representing the 6500 Industrial Highway Group will work jointly with your Agency to develop a written modification to the Work Plan.

At the preparation of this status report, KPR and the legal committee representing the 6500 Industrial Highway Group has received an amendment to the Administrative Order which, in effect, provides for the modification of the Work Plan as specified within the previously agreed to order.

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KPR has solicited bids and has received quotations from local sewer contractors. The quotations received to date are in excess of the budgetary quotation furnished by Dyer Construction last Spring. As a result, KPR has contacted the PRP's technical committee to solicit their approval of the work. In addition, KPR has sought financial assistance from the Airport who has express some interest in the support of this project. The Airport board meeting is scheduled for December 13, 2000 where their contribution will be evaluated and determined.

CCCI Site Inspection - Damaged Cap

KPR performed a site inspection of the CCCI property on November 8, 2000. KPR noted that several monitoring wells had been installed. As a part of the construction of these monitoring wells, the earthen cover overlying the stabilized soils had been damaged by the drilling vehicles that were on-site. KPR also noted damage to off-site surfaces that were previously finish graded, seeded, and stable. This damage and recommended remedy were brought to your attention and the repair of these damaged areas will be performed by U.S. EPA when field conditions permit.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Fred G. Kukaw

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

January 8, 2001

PROGRESS REPORT FOR DECEMBER, 2000

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - December 2000 Progress Report No.19

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending December 2000. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of December 2000, KPR performed the following activities:

Airport's Stormwater Pipe Installation

The amendment of the Administrative Order has been issued for final signature and will provide for the necessary modifications of the site's Work Plan. KPR has identified Reith Riley as its selected sewer contractor. As previously reported, the cost of this project is in excess of the established budget commitment. As a result, KPR has engaged in discussions with the Gary Airport officials to request their financial participation in this project. KPR's request was presented at the Gary Airport's Board of Directors meeting held on December 13, 2000. According to Mr. Ken Ross, the resident engineer, the board did not act upon our request and will address the request at their next meeting which is scheduled for January 17, 2001.

KPR anticipates that some level of participation will be provided by the Airport.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

Fred St. Kubaufos

February 6, 2001

PROGRESS REPORT FOR JANUARY, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - January 2001 Progress Report No. 20

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending January 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of January 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

The amendment of the Administrative Order has been issued for final signature and will provide for the necessary modifications of the site's Work Plan. As previously reported, the cost of this project is in excess of the established budget commitment. As a result, KPR has engaged in discussions with the Gary Airport officials to request their financial participation in this project. According to Mr. Ken Ross, the resident engineer, the board has contemplated our request and has identified a potential funding source. KPR has learned that the Federal Aviation Administration (FAA) conducted safety inspections last year to identify areas within the airport that presented safety hazards. As a result of this inspection, the open storm drainage ditch along the runway was identified as a significant safety hazard. In response to this hazard, the FAA has petitioned for an "Airport Safety Grant" to be allocated for the mitigation of these types of hazards. KPR has been informed that the grant request has been filed and is

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to be funded within approximately two (2) months. According to the preliminary review by the airport's board members and their engineer, there will be adequate funding to purchase the pipe materials. As such, upon receipt of their funding notice, the airport will provide written authorization to participate in the stormwater pipe installation project.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

Fred of Kubaup

March 1, 2001

PROGRESS REPORT FOR FEBRUARY, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - February 2001 Progress Report No. 21

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending February 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of February 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

The funding grant from the FAA is pending. KPR has been informed that the grant request has been filed and is to be funded in late April of this year. According to the preliminary review by the airport's board members and their engineer, there will be adequate funding in the grant to purchase the required pipe materials. As such, upon receipt of the FAA's funding notice, the airport will provide written authorization to participate in the stormwater pipe installation project. No other site activities have occurred.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Fred St Kribaups

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

Principal

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April 2, 2001

PROGRESS REPORT FOR MARCH, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - March 2001 Progress Report No. 22

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending March 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of March 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

The funding grant from the FAA is pending. KPR has been informed that the grant request has been filed and is to be funded in late April of this year. During this month, KPR contacted the Airport's Engineer to check the status of the FAA grant. KPR was informed that FAA requisition is in Washington, D.C. for funding and that it should be funded within the next four to six weeks. KPR was informed that upon receipt of the FAA's funding notice, the airport will provide written authorization to participate in the stormwater pipe installation project.

Site Inspection

KPR conducted a site visit on March 2, 2001 to inspect site conditions. The site was found to be secure with the fence and gate intact and locked. The caps appeared to

be intact, however, the tire ruts resulting from the monitoring well construction last fall remain. KPR also noted the rear (west) exit gate roadway, outside of the gate (off-site) expressed evidence of erosion resulting from the spring run-off.

Attachment A provides photographs of these observations.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

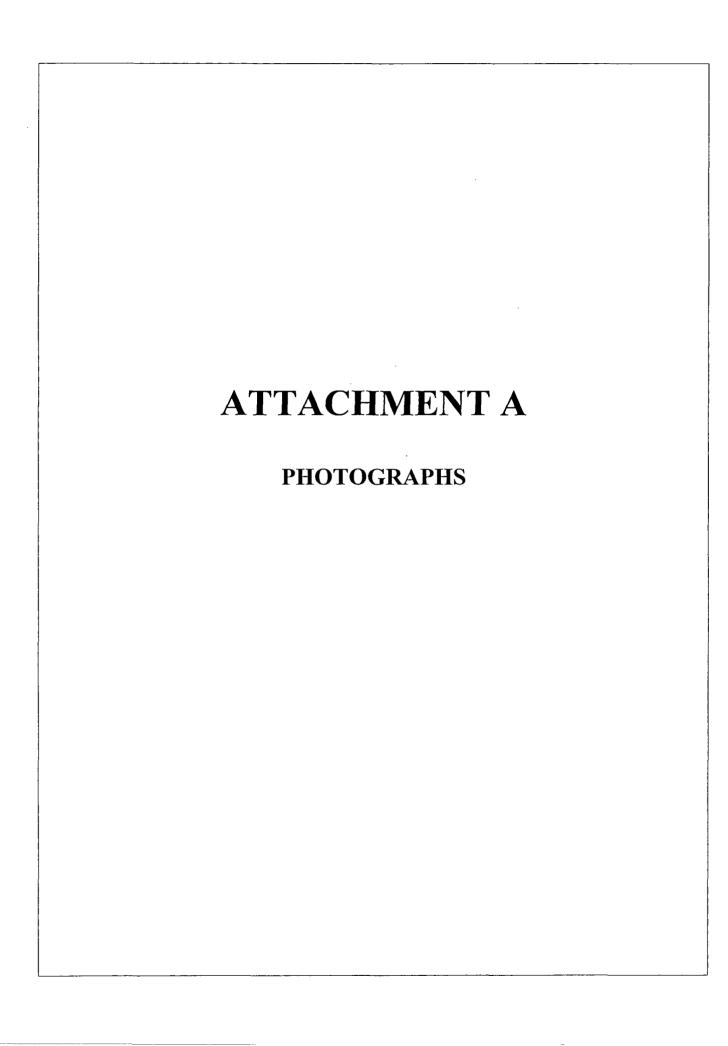
Froly Kukawhas

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

Principal

Attachment











May 8, 2001

PROGRESS REPORT FOR APRIL, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - April 2001 Progress Report No. 23

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending April 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of April 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

During this month, KPR contacted the Airport's Engineer to check the status of the FAA grant. The grant from the FAA remains pending. KPR has been informed that the grant request has been filed and is now expected to be funded in late May or June of this year. KPR was informed that FAA requisition is in Washington, D.C. for funding and that several clarifications were required before it could be funded. These clarifications pertained to information provided by the Chicago-Gary Airport and are due May 10, 2001.

No other project activities occurred during this month.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

June 8, 2001

PROGRESS REPORT FOR MAY, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - May 2001 Progress Report No. 24

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending May 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of May 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

During this month, KPR contacted the Airport's Engineer to check the status of the FAA grant. The grant from the FAA remains pending. The grant has two (2) components, one of which is unrelated to the sewer project. The unrelated portion concerns itself with the railroad relocation. A meeting with the railroad is scheduled for June 14, 2001. KPR was also informed by the Airport's Engineer that updated bid requests will be solicited from three (3) piping material vendors in mid-June with responses required within three (3) weeks. Funding approval is not expected until late July, 2001 or early August, 2001.

No other project activities occurred during this month.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Lud G. Kukau Ms

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

July 5, 2001

PROGRESS REPORT FOR JUNE, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - June 2001 Progress Report No. 25

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending June 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of June 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

During this month, KPR contacted the Airport's Engineer to check the status of the FAA grant. The grant from the FAA remains pending. Funding approval is not expected until late July, 2001 or early August, 2001.

No other project activities occurred during this month.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.



August 9, 2001

PROGRESS REPORT FOR JULY, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - July 2001 Progress Report No. 26

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending July 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of July 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

During this month, KPR contacted the Airport's Engineer to check the status of the FAA grant. According to Mr. Ken Ross, the grant from the FAA has been authorized and will be available September 1, 2001. The airport can then initiate the procurement process to obtain the materials for the project. KPR is anticipating a project start in late September or early October depending on scheduling with our subcontractors and the arrival of the materials.

No other project activities occurred during this month.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.



September 14, 2001

PROGRESS REPORT FOR AUGUST, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - August 2001 Progress Report No. 27

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending August 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999.

During the month of August 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

KPR contacted the Airport's Engineer to check the status of the FAA grant. According to Mr. Ken Ross, the grant from the FAA has been authorized and is available for the purchase of the necessary materials. Pending confirmation by the material suppliers and construction subcontractors, KPR is anticipating a project start in late October or early November. However, KPR is awaiting approval by U.S. EPA of the certification language proposed by the Airport representative before proceeding with the actual field activities.

No other project activities occurred during this month.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

y Krebaules

Fred G. Krikau, P.E.

KRIKAU PYLES RYSIEWICZ AND ASSOCIATES, INC.

October 4, 2001

PROGRESS REPORT FOR SEPTEMBER, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - September 2001 Progress Report No. 28

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending September 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999. During the month of September 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

KPR contacted the Airport's Engineer to check the status of the FAA grant. According to Mr. Ken Ross, the grant from the FAA has been authorized and the sewer construction materials have been purchased. The fabrication of the materials will require two (2) weeks and delivery is expected by mid-October. KPR has initiated the required access security clearances and has setup a project kick off meeting for 1:00 p.m. on October 24, 2001 at the Airport's conference room. U.S. EPA's attendance is requested. The installation of the sewer is tentatively scheduled for the week of November 5th. However, may be postponed to November 12th since the availability of the construction crew cannot be confirmed at this time.

As of the issuance of this report, KPR is awaiting approval by U.S. EPA of the certification language proposed by the Airport representative before proceeding with the actual field activities. It is our understanding that the committee's lawyers have been working with the Agency's lawyers to finalize the amendment to the Administrative Order. No other project activities occurred during this month.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to review them at our next progress meeting.

Respectfully submitted,

Fred & Kukaulas

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E. Principal

November 1, 2001

PROGRESS REPORT FOR OCTOBER, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - October 2001 Progress Report No. 29

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending October 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999. During the month of October 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

A project kickoff meeting was held at the Gary Airport on October 24, 2001. In attendance were representatives of KPR, U.S. EPA-Region V, Tetra Tech (U.S. EPA's environmental support firm) and Rieth-Riley (sewer contractor), as well as, the Gary Airport's engineer and head of security. In addition to the logistical and security issues discussed, a project work schedule was developed. Field construction activities will commence on Monday, November 12, 2001 and are expected to take 2-3 weeks to complete.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to contact us.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

December 5, 2001

PROGRESS REPORT FOR NOVEMBER, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - November 2001 Progress Report No. 30

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending November 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999. During the month of November 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

Rieth-Riley mobilized to the site on November 12, 2001. Installation of the sewer in accordance with the design specifications previously submitted to US EPA was completed on November 29, 2001. This installation included the construction of six (6) clay checks and six (6) test ports for monitoring purposes. Certification that the installation was in compliance with all FAA requirements is in the process of being signed by the Gary Airport Engineer. A copy will be provided to you upon receipt of the certification by KPR.

One remaining task of the project, the seeding of the area, will be performed during Spring 2002.

During the performance of the excavation activities required to prepare the ditch for the new sewer installation, petroleum impacted soil was encountered in several areas. This impacted material, along with the contaminated corrugated drainage pipes located under the access road over the ditch, were staged on concrete in a designated area for US EPA's removal and disposal.

Final Report

Preparation of the Final Report documenting the corrective action activities performed on the CCCI site is in progress. This report is required to be submitted for US EPA's review within 60 days of project completion and will be submitted by January 29, 2002.

Post Removal Site Control

As required, monitoring of the site by KPR on a quarterly basis will being December 1, 2001 and will conclude by November 30, 2002.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to contact us.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred G. Krikau, P.E.

KRIKAU PYLES RYSIEWICZ AND ASSOCIATES, INC.

January 2, 2002

PROGRESS REPORT FOR DECEMBER, 2001

Mr. Steve Faryan, On Scene Coordinator United States Environmental Protection Agency Region V 77 West Jackson Blvd. Chicago, Illinois 60604

VIA U.S. MAIL

KPR Project No.17094

Re: Conservation Chemical Company of Illinois (Site), Gary, Indiana Site Remediation - Monthly Progress Report - December 2001 Progress Report No. 31

Mr. Faryan:

In accordance with the Administrative Consent Order for the above referenced site, the following is the monthly progress report for the month ending December 2001. Krikau, Pyles, Rysiewicz & Associates, Inc. (KPR), the 6500 Industrial Highway Group's contractor, initiated preliminary site work in June of 1999 and mobilized for on-site work in July of 1999. This report is a continuation of the chain of monthly progress reports since KPR started its project work in June of 1999. During the month of December 2001, KPR performed the following activities:

Airport's Stormwater Pipe Installation

Seeding of the former ditch area, which was originally scheduled for Spring 2002, was actually completed on December 18, 2001.

KPR is still awaiting the Gary Airport Engineer's certification that the project was completed in compliance with all FAA requirements. A copy will be provided to you upon receipt.

Final Report

Preparation of the Final Report documenting the corrective action activities performed on the CCCI site (including the Gary Airport work) is in progress. This report is required to be submitted for US EPA's review within 60 days of project completion and will be submitted by January 29, 2002.

Post Removal Site Control

As required, monitoring of the site by KPR on a quarterly basis began on December 1, 2001 and will conclude by November 30, 2002.

Should you have any questions concerning this report or the activities conducted, please do not hesitate to contact us.

Respectfully submitted,

Krikau, Pyles, Rysiewicz and Associates, Inc.

Fred St. Krikau, P.E. Principal